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AN/"Escher Wyss": 350 patents.

Hits 1 through 50 out of 350



Klaus Schwab, Escher Wyss et al. (Accessed Mar. 03, 2021). Assignees: Escher Wyss, Sulzer, Andritz, Stoll, Festo, Festool. U.S. Patent Office.

[Next 50 Hits](#)**4558 = Total Patents awarded since Jan. 06, 1976 (3,930,608) to Feb. 23, 2021 (10,927,865)**[Jump To](#)

| | | |
|-------------|------|---|
| Escher Wyss | 350 | 3,930,608 (awarded Jan. 06, 1976) to 5,916,446 (awarded Jun. 29, 1999) |
| Andritz | 676 | 10,914,519 (awarded Feb. 09, 2021) to 3,942,433 (awarded Mar. 09, 1976) |
| Sulzer | 2889 | 10,935,002 (awarded Mar. 02, 2021) to 3,965,359 (awarded Jun. 22, 1976) |
| Festo | 448 | 4,094,384 (awarded Jun. 13, 1978) to 10,927,865 (awarded Feb. 23, 2021) |
| Festool | 11 | 7,029,384 (awarded Apr. 18, 2006) to 10,893,784 (awarded Jan. 19, 2021) |
| Stoll | 184 | 4,011,912 (awarded Mar. 15, 1977) to 10,820,703 (awarded Nov. 03, 2020) |

[Refine Search](#)

AN/"Escher Wyss"

- | PAT.
NO. | Title |
|------------------------------|---|
| 1 5,916,446 | T Process and apparatus for the separation of solid matter via flotation |
| 2 5,813,960 | T Press roll and machine with press roll |
| 3 5,791,245 | T Pressure roll |
| 4 5,785,815 | T Process for damping pressure pulsations and apparatus for performing the process |
| 5 5,765,392 | T Screw compressor apparatus for refrigerants with oils soluble in refrigerants |
| 6 5,690,812 | T Process and apparatus for the separation of solid matter via flotation |
| 7 5,673,616 | T Apparatus for influencing the thickness and gloss and/or smoothness in the treatment of fiber material webs |
| 8 5,635,032 | T Double wire former |
| 9 5,632,435 | T Process for the production of a soldered joint |
| 10 5,566,903 | T Roller mill for milling suspended fibrous material |
| 11 5,556,511 | T Process for drying paper webs |
| 12 5,551,171 | T Winding device for a fiber web |
| 13 5,533,443 | T Method for influencing the thickness and gloss and/or smoothness in the treatment of fiber material webs |
| 14 5,527,422 | T Machine for continuous manufacture of chipboards, fibreboards or similar products |
| 15 5,520,344 | T Apparatus for the comminution of suspended fibre material |
| 16 5,513,566 | T Rotary printing machine |
| 17 5,510,039 | T Method for separating off solid materials |
| 18 5,509,536 | T Method and apparatus for the sorting of fiber suspensions |
| 19 5,469,784 | T Calender assembly including an additional roll displaced into the path of the web of material |
| 20 5,465,502 | T Suction roll in particular for a paper web dryer |
| 21 5,456,645 | T Roll |

Note: The U.S. Patent Office search has CENSORED Escher Wyss AG Zurich, Switzerland, U.S. Pat. No. 3,373,299 THERMAL POWER PLANT WITH MHD [Magneto-hydrodynamic] GENERATOR, filed Oct. 19, 1964 (attached to the end of this document.)

("The MHD generator is detonated by 1. Gaseous, ionized flow medium, coming from a pre-connected heater 2, for example, a nuclear reactor, is led to said generator. This flow medium is raised in the heater 2 to a high temperature, for example above 2000 degrees C. The electrical director current generated is taken off at terminals 3, 3' and converted to alternating current in a converter 4.")

- 22 [5,437,850](#) **T** Method for calcining moist gypsum
- 23 [5,431,787](#) **T** Press section of a papermaking machine
- 24 [5,431,785](#) **T** Multilayer head box for a paper machine
- 25 [5,431,321](#) **T** Roll for web pressing or web guiding
- 26 [5,417,806](#) **T** Method of removing fine contaminants from used paper fibre material
- 27 [5,412,977](#) **T** Turbo machine with an axial dry gas seal
- 28 [5,406,883](#) **T** Dewatering press for compressibly dewaterable material
- 29 [5,400,708](#) **T** Supporting connections between two rolls
- 30 [5,393,290](#) **T** Roll with adjustable deflection
- 31 [5,390,592](#) **T** Dewatering press for compressibly dewaterable material
- 32 [5,387,782](#) **T** Apparatus for smoothing paper webs
- 33 [5,383,833](#) **T** Roll for heating or cooling running webs
- 34 [5,372,068](#) **T** Rotary printing press
- 35 [5,371,954](#) **T** Method and apparatus for the guiding of fibre webs
- 36 [5,347,728](#) **T** Suction roll, especially for a paper web drier
- 37 [5,345,864](#) **T** Printing cylinder of a rotary printing press and a method for use therewith
- 38 [5,326,470](#) **T** Non-compressive loading of a screen basket for a pulp pressure screening apparatus
- 39 [5,323,913](#) **T** Pressure screening apparatus with baffle
- 40 [5,322,412](#) **T** Method and apparatus for optimizing the operating parameters of a double-regulated water turbine
- 41 [5,320,713](#) **T** Method of using a forming section of a papermaking machine
- 42 [5,318,670](#) **T** Method for the generation of smoothness and gloss of a paper web
- 43 [5,312,225](#) **T** Axially thrust-compensated turbo machine
- 44 [5,308,450](#) **T** Press section of a papermaking machine
- 45 [5,302,252](#) **T** Heated extended nip press with inlet support pocket
- 46 [5,298,126](#) **T** Headbox for a paper-making machine
- 47 [5,298,122](#) **T** Measuring device and method for measuring the crosswise profile of a paper web
- 48 [5,290,223](#) **T** Deflection controlled roll
- 49 [5,285,844](#) **T** Heating or cooling rolls
- 50 [5,282,933](#) **T** Wet section for a twin wire papermaking machine

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|-----------------------|---------------------------|-------------------------|---------------------------|
| Home | Next List | Top | View Cart |
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AN/"Escher Wyss"

**PAT.
NO.****Title**

- 51 [5,279,424](#) T [Floatation apparatus for removal of distrubing substances, especially printing ink from waste paper suspensions](#)
- 52 [5,269,075](#) T [Apparatus for interconnecting two groups of driers of a papermaking machine](#)
- 53 [5,266,167](#) T [Method of roll cooling in a paper machine](#)
- 54 [5,263,840](#) T [Calendar for surface treatment of material webs](#)
- 55 [5,262,010](#) T [Dewatering device with adjustable force elements for the web-forming section of a papermaking machine](#)
- 56 [5,259,929](#) T [Twin wire former](#)
- 57 [5,257,698](#) T [Cleaner for stock suspensions](#)
- 58 [5,255,447](#) T [Heat protection hood](#)
- 59 [5,249,758](#) T [Apparatus for the continuous winding of a web of sheet-like material, in particular a paper web](#)
- 60 [5,245,920](#) T [Method of calendering a paper web](#)
- 61 [5,240,666](#) T [Apparatus and method for producing plastic foils](#)
- 62 [5,237,154](#) T [Process for manufacturing a slotted hole screen](#)
- 63 [5,236,090](#) T [Flotation-deinking-device](#)
- 64 [5,231,924](#) T [Apparatus for the vertical adjustment of rolls](#)
- 65 [5,225,043](#) T [Twin wire former with water guide element over the forming zone](#)
- 66 [5,221,476](#) T [Hydrocyclone conduits](#)
- 67 [5,219,581](#) T [Cooling device for a blow extruder](#)
- 68 [5,205,933](#) T [Pusher centrifuge](#)
T

- 69 [5,197,174](#) [Controlled deflection roll](#)

70 [5,179,894](#) [T Calender with positionable rollers](#)

71 [5,167,770](#) [T De-watering apparatus in a two-wire former](#)

72 [5,163,364](#) [T Method for calendering a paper or cardboard web](#)

73 [5,163,336](#) [T Vibration device](#)

74 [5,152,041](#) [T Method and apparatus for rolling continuous material](#)

75 [5,146,664](#) [T Controlled deflection roll](#)

76 [5,137,678](#) [T Method for calendering a paper or cardboard web coated at both sides](#)

77 [5,116,477](#) [T Drainage device in a double-sieve mold](#)

78 [5,111,566](#) [T Controlled deflection roll](#)

79 [5,096,587](#) [T Hydrocyclone conduit](#)

80 [5,094,163](#) [T Impression cylinder of a rotogravure press](#)

81 [5,078,878](#) [T Pressure knotter screening apparatus](#)

82 [5,076,891](#) [T Heated roller and method for its operation](#)

83 [5,074,019](#) [T Roll with induction heating arrangement](#)

84 [5,071,513](#) [T Method for the mechanical-thermal dewatering of a fiber stock web](#)

85 [5,068,093](#) [T Method for producing titanium dioxide](#)

86 [5,061,347](#) [T Adjustable ledge for the sheet forming zone of a papermaking machine](#)

87 [5,024,755](#) [T Cone wear detection](#)

88 [5,022,319](#) [T Apparatus for neutralizing overhanging loads](#)

89 [4,999,084](#) [T Method for heat treating short fiber fractions after separation of the long fiber fractions from a secondary fiber mixture](#)

90 [4,989,825](#) [T Support means for supporting calender rolls](#)

91 [4,989,431](#) [T Rolling device](#)

92 [4,970,803](#) [T Method for drying sludge](#)

93 [4,970,767](#) [T Heatable controlled deflection roll](#)

94 [4,967,653](#) [T Calender having displaceable bearing parts](#)

95 [4,955,268](#) [T Apparatus containing a work surface heated with a heat carrier medium](#)

96 [4,927,494](#) [T Apparatus for preparing high-concentration alkali](#)

97 [4,921,573](#) [T Method of regulating the specific dispersion work for waste paper stock preparation for papermaking](#)

98 [4,915,789](#) [T Apparatus for adjusting a diaphragm blade](#)

99 [4,909,900](#) [T Method for high temperature, high consistency quick bleaching of raw paper pulp](#)

100 [4,906,336](#) [T Headbox device for a papermaking machine](#)

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

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Top

[View Cart](#)

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Quick

Advanced

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Hits 101 through 150 out of 350

[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)

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AN/"Escher Wyss"

**PAT.
NO.****Title**

- 101 [4,898,643](#) T Headbox control apparatus for a papermaking machine
- 102 [4,897,158](#) T Headbox apparatus for a papermaking machine
- 103 [4,891,100](#) T Apparatus for retaining a partition foil
- 104 [4,890,551](#) T Apparatus for guiding the rolls of an essentially vertical calender
- 105 [4,889,627](#) T Pusher centrifuge
- 106 [4,888,094](#) T Method of operating a headbox apparatus for a papermaking machine
- 107 [4,864,703](#) T Press roll
- 108 [4,858,292](#) T Controlled deflection roll
- 109 [4,856,156](#) T Roll arrangement containing a controlled deflection roll
- 110 [4,830,707](#) T Method and apparatus for preparing high-concentration alkali
- 111 [4,824,524](#) T Multi-ply headbox for a papermaking machine
- 112 [4,823,690](#) T Roll calender with Nip relieving devices
- 113 [4,819,881](#) T Refiner for processing a fiber stock suspension for paper fabrication
- 114 [4,815,183](#) T Controlled deflection roll
- 115 [4,784,764](#) T Arrangement for the flocculation of flocculatable substances in suspensions, particularly for the purification of the backwater of deinking installations for waste paper processing
- 116 [4,781,025](#) T Apparatus for the hydraulic transmission of mechanical power and for the simultaneous multiplication of the speed of rotation
- 117 [4,773,824](#) T Rotor of a wind power installation
- 118 [4,770,745](#) T Front wall and support arrangement at the headbox of a papermaking machine
- 119 [4,736,678](#) T Apparatus for selectively positioning rolls in a calender roll stack

T

- 120 [4,726,691](#) [Hydrostatic support arrangement](#)
 - 121 [4,721,154](#) [T Method of, and apparatus for, the continuous casting of rapidly solidifying material](#)
 - 122 [4,721,039](#) [T Method and control apparatus for separating the rolls of a calender](#)
 - 123 [4,714,522](#) [T Device for decelerating fast-flow currents of white water](#)
 - 124 [4,709,571](#) [T Method of operating a controlled deflection roll and a rolling mill equipped with at least one controlled deflection roll](#)
 - 125 [4,705,602](#) [T Hydraulic pressing shoe with an adjustable circumferential press zone](#)
 - 126 [4,704,879](#) [T Treatment machine with rotatable treatment drum](#)
 - 127 [4,686,005](#) [T Method of washing stock suspensions by removing undesired material through an endless revolving wire](#)
 - 128 [4,681,029](#) [T Apparatus for treating soybeans](#)
 - 129 [4,662,992](#) [T Twin-wire papermaking machine and method of dewatering a paper web in a twin-wire papermaking machine](#)
 - 130 [4,661,206](#) [T Wet press for dewatering a material web with plural pressure pockets and unsymmetrical arrangement](#)
 - 131 [4,658,621](#) [T Rolling apparatus](#)
 - 132 [4,650,125](#) [T Method for sorting fiber stock, especially for manufacturing paper, and sorting apparatus for the performance of such method](#)
 - 133 [4,620,926](#) [T Flotation apparatus for flotation of fibrous stock suspension recovered from waste paper](#)
 - 134 [4,620,348](#) [T Controlled deflection roll](#)
 - 135 [4,611,479](#) [T Method and apparatus for rolling metal foils](#)
 - 136 [4,610,617](#) [T Heat insulating protective shields for two-roll calender with heated rolls](#)
 - 137 [4,605,366](#) [T Calender for pressure and thermal treatment of material webs](#)
 - 138 [4,600,594](#) [T Process for the conditioning of crushed oil-containing seeds prior to flaking](#)
 - 139 [4,597,275](#) [T Calender](#)
 - 140 [4,583,273](#) [T Controlled deflection roll](#)
 - 141 [4,581,797](#) [T Controlled deflection roll](#)
 - 142 [4,574,496](#) [T Ring-gap nozzle and its application in a fluidized bed dryer](#)
 - 143 [4,570,314](#) [T Press roll](#)
 - 144 [4,569,761](#) [T Centrifuge sieve and method of producing the same](#)
 - 145 [4,563,940](#) [T Oil infeed device for an adjustable pitch propeller](#)
 - 146 [4,560,474](#) [T Flotation apparatus for floating fiber suspensions extracted from waste paper](#)
 - 147 [4,558,986](#) [T Control mechanism for the stator vanes of an axial turbine device](#)
 - 148 [4,557,826](#) [T Method of and apparatus for separating tacky contaminants from a stock suspension](#)
 - 149 [4,556,573](#) [T Method for treating soybeans](#)
 - 150 [4,556,454](#) [T Wet press for dewatering a web of material](#)

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

Next List

Top

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Quick

Advanced

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AN/"Escher Wyss"

**PAT.
NO.**
Title

- 151 [4,552,462](#) T Stirrer apparatus for paper stock
- 152 [4,552,008](#) T Rolling mill for sheet material
- 153 [4,547,197](#) T Treatment of brine elutriate
- 154 [4,545,726](#) T Turbine
- 155 [4,543,162](#) T Multi-ply headbox having adjustable outlet slices
- 156 [4,540,341](#) T Adjustable propeller for marine vessel drive
- 157 [4,538,765](#) T Method for defiberizing waste paper in a thick stock range
- 158 [4,530,227](#) T Hydrostatic support member, particularly for rolling mills, and method of using the same
- 159 [4,525,916](#) T Method of coupling coaxial shafts
- 160 [4,519,899](#) T Purification of oil using a jet pump mixer
- 161 [4,513,464](#) T Method for controlling the acceleration of a centrifuging device
- 162 [4,509,925](#) T Marine vessel propeller with nozzle
- 163 [4,509,237](#) T Arrangement containing a controlled deflection roll and related regulator
- 164 [4,502,312](#) T Apparatus for controlling the pressing force between a controlled deflection roll and a counter element
- 165 [4,501,662](#) T Wire machine, for dewatering stock suspensions
- 166 [4,501,040](#) T Method and apparatus for washing stock suspensions by removing undesired material through an endless wire
- 167 [4,493,769](#) T Twin pusher centrifuge
- 168 [4,493,768](#) T Twin pusher centrifuge including rotatable pusher
- 169 [4,491,521](#) T Dewatering apparatus

T

- 170 [4,490,212](#) [Papermaking machine with central dewatering cylinder](#)
 - 171 [4,481,799](#) [T Arrangement for regulating a rolling mill for metal rolling](#)
 - 172 [4,480,459](#) [T Rolling mill](#)
 - 173 [4,480,452](#) [T Rolling mill](#)
 - 174 [4,478,684](#) [T Papermaking machine stock trim deflecting device](#)
 - 175 [4,472,958](#) [T Rolling mill](#)
 - 176 [4,470,283](#) [T Roll stand containing work rolls](#)
 - 177 [4,468,287](#) [T Band press for a fiber web](#)
 - 178 [4,464,921](#) [T Arrangement for controlling a controlled deflection roll](#)
 - 179 [4,464,580](#) [T Hydro-electric turbo-machine](#)
 - 180 [4,459,175](#) [T Longitudinal wire papermaking machine](#)
 - 181 [4,458,517](#) [T Controlled deflection roll](#)
 - 182 [4,456,183](#) [T Fiberizer for stock suspensions for fabricating paper](#)
 - 183 [4,453,299](#) [T Controlled deflection roll](#)
 - 184 [4,447,941](#) [T Dewatering roll of a wire press](#)
 - 185 [4,447,295](#) [T Dewatering apparatus for longitudinal wire papermaking machines](#)
 - 186 [4,445,975](#) [T Headbox for a papermaking machine](#)
 - 187 [4,443,727](#) [T Deformable rotor for a hydroelectric machine](#)
 - 188 [4,443,300](#) [T Paper making machine with a filter cylinder](#)
 - 189 [4,435,971](#) [T Controlled deflection roll with control arrangement](#)
 - 190 [4,434,052](#) [T Centrifugal separator](#)
 - 191 [4,431,482](#) [T Dispersion apparatus for the preparation of waste paper](#)
 - 192 [4,430,221](#) [T Centrifuge sieve](#)
 - 193 [4,430,159](#) [T Twin-wire papermaking machine](#)
 - 194 [4,429,446](#) [T Roll for a rolling mill](#)
 - 195 [4,427,552](#) [T Method of automatically controlling a continuously operating pressure filter](#)
 - 196 [4,425,187](#) [T Twin-wire papermaking machine](#)
 - 197 [4,422,318](#) [T Roller with a roller surface which is to be heated or cooled](#)
 - 198 [4,421,990](#) [T Tidal power plant and method of operating the same](#)
 - 199 [4,417,950](#) [T Papermaking machine containing two movable water pervious dewatering bands](#)
 - 200 [4,414,889](#) [T Rolling device](#)

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

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Top

[View Cart](#)

Home

Quick

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[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/"Escher Wyss"

**PAT.
NO.****Title**

- 201 [4,413,669](#) T Method of heat extraction from an aqueous carrier medium
- 202 [4,406,635](#) T Marine vessel with at least one propeller
- 203 [4,405,450](#) T Method for fractionating fiber stock obtained from waste paper and apparatus for the performance of the aforesaid method
- 204 [4,404,724](#) T Hydrostatic support element, especially for a controlled deflection roll
- 205 [4,402,463](#) T Grinding apparatus for a suspension of fibres for paper manufacturing
- 206 [4,397,713](#) T Method of processing waste paper and installation for the performance of the method
- 207 [4,387,856](#) T Method for operating an installation for processing waste paper
- 208 [4,384,922](#) T Installation for charging a multi-ply headbox for papermaking machines
- 209 [4,381,588](#) T Controlled deflection roll
- 210 [4,381,219](#) T Headbox arrangement for a papermaking machine
- 211 [4,373,238](#) T Support element with flexible head portion
- 212 [4,371,350](#) T Marine vessel with propeller
- 213 [4,371,115](#) T Ring-gap nozzle
- 214 [4,361,467](#) T Headbox for a papermaking machine
- 215 [4,358,993](#) T Apparatus for thermally treating a layer of material
- 216 [4,357,743](#) T Controlled deflection roll
- 217 [4,334,344](#) T Controlled deflection roll
- 218 [4,330,411](#) T Process for treating clarified sludge
- 219 [4,325,584](#) T Mounting for a rotor
- 220 [4,319,522](#) T Rolling mill for rolling web-like materials

- 221 [4,319,389](#) T Controlled deflection roll
222 [4,313,992](#) T Centrifuge screen
223 [4,312,139](#) T Material web drier
224 [4,310,204](#) T Hydrostatic support apparatus
225 [4,306,975](#) T Sieve apparatus containing a rotatable circular sieve
226 [4,304,049](#) T Process for thermal treatment, especially drying
227 [4,293,988](#) T Controlled deflection roll
228 [4,292,716](#) T Controlled deflection roll
229 [4,291,447](#) T Controlled deflection roll
230 [4,291,446](#) T Controlled deflection roll
231 [4,288,703](#) T Large diameter hydroelectric machine
232 [4,283,275](#) T Apparatus for processing waste paper
233 [4,283,023](#) T Winder apparatus for a paper machine
234 [4,282,639](#) T Heated controlled deflection roll
235 [4,282,638](#) T Controlled deflection roll
236 [4,280,870](#) T Pulp feed for a papermaking machine
237 [4,271,575](#) T Controlled deflection roll
238 [4,262,401](#) T Hydrostatic support member
239 [4,262,400](#) T Support member
240 [4,259,136](#) T Method of making a centrifuge screen
241 [4,254,150](#) T Process for producing a foodstuff of cereal
242 [4,249,290](#) T Controlled deflection roll
243 [4,246,668](#) T Treatment of a web of material
244 [4,241,482](#) T Deflection compensating roll
245 [4,233,322](#) T Manufacturing of instant products from legumes
246 [4,228,571](#) T Hydraulic support element
247 [4,225,427](#) T Sorting apparatus for a stock suspension obtained from waste paper
248 [4,222,324](#) T Apparatus for determining the pressure forces effective in a rolling mill having at least one controlled deflection roll and at least one counter roll
249 [4,222,255](#) T Rolling device having at least one controlled deflection roll
250 [4,221,635](#) T Pulp feed for a papermaking machine

| | | | | |
|----------------------------|---------------------------|--------------------------|---------------------------|----------------------|
| Prev. List | Next List | Top | View Cart | |
| Home | Quick | Advanced | Pat Num | Help |

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Hits 251 through 300 out of 350

[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/"Escher Wyss"

**PAT.
NO.****Title**

- 251 [4,219,381](#) T Method of treating waste paper for obtaining a stock suspension for the production of new paper and apparatus for the performance of the aforesaid method
- 252 [4,218,905](#) T Rolling mill
- 253 [4,217,226](#) T Pusher centrifuge
- 254 [4,216,918](#) T Fiberizer
- 255 [4,214,354](#) T Controlled deflection roll
- 256 [4,213,232](#) T Controlled deflection roll
- 257 [4,209,405](#) T Centrifuge
- 258 [4,206,700](#) T Rolling device
- 259 [4,198,905](#) T Calender composed of controlled deflection rolls
- 260 [4,192,710](#) T Method and apparatus for measuring the throughflow quantity of a liquid substance per unit of time in a papermaking machine
- 261 [4,188,874](#) T Press with two pressure rollers
- 262 [4,186,472](#) T Support element for controlled deflection roll
- 263 [4,184,268](#) T Dryer drum for a paper making machine
- 264 [4,183,128](#) T Controlled deflection roll
- 265 [4,176,005](#) T Double filter papermaking machine
- 266 [4,169,054](#) T Process for concentrating and purifying aqueous sulphuric acid solutions
- 267 [4,167,964](#) T Continuous casting plant
- 268 [4,156,958](#) T Releasable fastening
- 269 [4,154,649](#) T Pulp feed for a paper making machine

T

- 270 [4,154,078](#) **T** Rolling mill

271 [4,151,970](#) **T** Mounting of tubular turbines

272 [4,149,759](#) **T** Radial bearing arrangement

273 [4,149,397](#) **T** Rolling mill

274 [4,146,476](#) **T** Peeling centrifuge

275 [4,146,427](#) **T** Head box guide block having bores and tubular inserts

276 [4,146,052](#) **T** Damping device for a flow of liquid

277 [4,143,828](#) **T** Winder for a papermaking machine

278 [4,140,575](#) **T** Roller frame, particularly for the press portion of a paper machine

279 [4,137,124](#) **T** Head box for a papermaking machine

280 [4,136,546](#) **T** Pressure roll

281 [4,135,671](#) **T** Stock pulper

282 [4,129,786](#) **T** Rim-type hydroelectric machine

283 [4,126,360](#) **T** Francis-type hydraulic machine

284 [4,124,349](#) **T** Rolling mill with two press gaps

285 [4,123,666](#) **T** Rim-type hydroelectric machine

286 [4,123,321](#) **T** Removable head box for a paper making machine

287 [4,116,763](#) **T** Separating system for wires of a double-wire paper-making machine

288 [4,116,601](#) **T** Apparatus for the production of flakes from granular products

289 [4,114,959](#) **T** Hydrostatic supporting device including bearing shoe

290 [4,113,325](#) **T** Supporting device

291 [4,111,746](#) **T** Rolling device having a controlled-deflection roll

292 [4,110,156](#) **T** Compact press at the web transfer position of a paper making machine

293 [4,107,831](#) **T** Pressure roller

294 [4,106,824](#) **T** Hydrostatic supporting device

295 [4,106,405](#) **T** Controlled deflection roll

296 [4,106,211](#) **T** Apparatus for operating a drying cylinder of a paper making machine

297 [4,102,025](#) **T** Controlled deflection roll

298 [4,100,683](#) **T** Drying cylinder for a paper making machine

299 [4,096,587](#) **T** Mixer for resin and sand

300 [4,094,794](#) **T** Hydrocyclone

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

[Next List](#)

Top

[View Cart](#)

[Home](#)

Quick

Advanced

Pat Num

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AN/"Escher Wyss": 350 patents.

Hits **301 through 350 out of 350**[Prev. 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/"Escher Wyss"

| PAT. NO. | Title |
|-------------------------------|--|
| 301 4,093,552 | T Filtration apparatus |
| 302 4,092,916 | T Controlled-deflection roll |
| 303 4,091,862 | T Guiding device for continuously cast metal strands and the like |
| 304 4,091,517 | T Hydrostatic support arrangement |
| 305 4,090,282 | T Deflection control device |
| 306 4,089,739 | T Head box having guide block and adjustable slice plates |
| 307 4,087,321 | T Head box having distributor pipe connected to a pulp guide block |
| 308 4,074,624 | T Method of adjusting the contact pressure of a rolling mill and apparatus for the performance thereof |
| 309 4,073,731 | T Push-type centrifuge |
| 310 4,073,549 | T Hydrostatic supporting device |
| 311 4,071,401 | T Separating system for separating two wires of a double-wire paper-making machine |
| 312 4,069,569 | T Deflection-controlled roll for the pressure treatment of materials in web form |
| 313 4,066,554 | T Filtration apparatus |
| 314 4,064,403 | T Rim-type hydroelectric machine |
| 315 4,061,532 | T Adjustable suction device for a paper machine |
| 316 4,061,283 | T Refiner for grinding of fibrous material |
| 317 4,059,976 | T Rolling mill |
| 318 4,058,878 | T Controlled deflection roll |
| 319 4,058,877 | T Deflection-controlled roll for the pressure treatment of materials in web form |
| 320 4,048,701 | T Deflection compensating roll |
| 321 4,047,274 | T Support for continuously cast hot metal components |
| 322 4,047,273 | T Deflection compensating roll |

- 301 [4,093,552](#) [T Filtration apparatus](#)
 302 [4,092,916](#) [T Controlled-deflection roll](#)
 303 [4,091,862](#) [T Guiding device for continuously cast metal strands and the like](#)
 304 [4,091,517](#) [T Hydrostatic support arrangement](#)
 305 [4,090,282](#) [T Deflection control device](#)
 306 [4,089,739](#) [T Head box having guide block and adjustable slice plates](#)
 307 [4,087,321](#) [T Head box having distributor pipe connected to a pulp guide block](#)
 308 [4,074,624](#) [T Method of adjusting the contact pressure of a rolling mill and apparatus for the performance thereof](#)
 309 [4,073,731](#) [T Push-type centrifuge](#)
 310 [4,073,549](#) [T Hydrostatic supporting device](#)
 311 [4,071,401](#) [T Separating system for separating two wires of a double-wire paper-making machine](#)
 312 [4,069,569](#) [T Deflection-controlled roll for the pressure treatment of materials in web form](#)
 313 [4,066,554](#) [T Filtration apparatus](#)
 314 [4,064,403](#) [T Rim-type hydroelectric machine](#)
 315 [4,061,532](#) [T Adjustable suction device for a paper machine](#)
 316 [4,061,283](#) [T Refiner for grinding of fibrous material](#)
 317 [4,059,976](#) [T Rolling mill](#)
 318 [4,058,878](#) [T Controlled deflection roll](#)
 319 [4,058,877](#) [T Deflection-controlled roll for the pressure treatment of materials in web form](#)
 320 [4,048,701](#) [T Deflection compensating roll](#)
 321 [4,047,274](#) [T Support for continuously cast hot metal components](#)
 322 [4,047,273](#) [T Deflection compensating roll](#)

- 323 [4,041,752](#) T Rolling mills having hydraulic forces exerted on the exterior roll surfaces
- 324 [4,036,683](#) T Web press for a paper machine
- 325 [4,023,480](#) T Apparatus for controlling a deflection compensating press roll of a rolling mill
- 326 [4,014,497](#) T Vertical centrifuge
- 327 [4,011,027](#) T Stain removal apparatus
- 328 [4,009,822](#) T Weir in a path of conveyance
- 329 [4,008,122](#) T Paper making machine with facing felt and forming wire
- 330 [4,004,968](#) T Consecutive multi-ply formers with an unencumbered doffer felt
- 331 [4,000,979](#) T Roll for a rolling mill
- 332 [3,998,709](#) T Treating remains containing sodium chloride and sodium sulphate
- 333 [3,997,953](#) T Temperature-controlled roll for a rolling mill
- 334 [3,997,952](#) T Roll for a rolling mill
- 335 [3,997,389](#) T Concentrating sodium or potassium hydroxide
- 336 [3,997,103](#) T Path of conveyance with membrane
- 337 [3,994,367](#) T Hydrostatically lubricated bearing
- 338 [3,993,537](#) T Method of regulating a paper machine
- 339 [3,990,935](#) T Machine for producing a corrugated sheet
- 340 [3,974,026](#) T Belt press with rotatable cylinder and adjustable pressure member
- 341 [3,970,244](#) T Clearing centrifuge
- 342 [3,969,801](#) T Flexure compensating roll
- 343 [3,962,031](#) T Stock inlet for a paper machine
- 344 [3,951,440](#) T Pipe branch piece
- 345 [3,949,455](#) T Flexure-compensating roll
- 346 [3,945,576](#) T Stock pulper
- 347 [3,942,728](#) T Stock pulper
- 348 [3,935,061](#) T Stock inlet for a paper machine
- 349 [3,932,921](#) T Controlled deflection roll
- 350 [3,930,608](#) T Centrifuge

[Prev. List](#)[Top](#)[View Cart](#)[Home](#)[Quick](#)[Advanced](#)[Pat Num](#)[Help](#)

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AN/Sulzer: 2889 patents.

Hits 1 through 50 out of 2889

[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

PAT. NO.**Title**

- 1 [10,935,002](#) T Method and system for testing a lighting protection system of a wind turbine
- 2 [10,906,702](#) T Cartridge, method of manufacturing a cartridge, dispensing assembly and method of assembling a dispensing assembly
- 3 [10,894,272](#) T Dispensing control system
- 4 [10,890,193](#) T Multiphase pump
- 5 [10,871,169](#) T Volute casing for a centrifugal pump and centrifugal pump
- 6 [10,870,127](#) T Cartridge for a mixing and dispensing system
- 7 [10,864,607](#) T Method for manufacturing or for repairing a component of a rotary machine as well as a component manufactured or repaired using such a method
- 8 [10,859,164](#) T Double mechanical seal, a stationary slide ring thereof and a pump housing in a centrifugal pump
- 9 [10,857,621](#) T Method of manufacturing a component of a rotary machine and component manufactured using said method
- 10 [10,857,479](#) T Liquid distributor in columns, method for producing a liquid distributor and column and method for separating substance mixtures
- 11 [10,851,653](#) T Method for manufacturing or for repairing a component of a rotary machine as well as a component manufactured or repaired using such a method
- 12 [10,844,874](#) T Inlet device for a vertical pump and an arrangement comprising such an inlet device
- 13 [10,837,455](#) T Pump casing for a centrifugal pump and centrifugal pump
- 14 [10,835,879](#) T Vane for an impeller of an agitator, impeller and agitator
- 15 [10,828,609](#) T Mixing element for a static mixer
- 16 [10,821,469](#) T Two-component dispenser
- 17 [10,814,252](#) T Spherical separation device and method for separation
- 18 [D899,463](#) T Compressor
- 19 [10,788,023](#) T Passive actuator for suppressing a vibration of a column pipe of a vertical pump, vertical

[pump and method of retrofitting a vertical pump](#)

- 20 [10,787,723](#) T Nickel base casting alloy, casting, and method for manufacturing an impeller of a rotary machine
- 21 [10,786,790](#) T Multicomponent static mixer for mixing components
- 22 [10,773,433](#) T Cartridge, core, mold and method of manufacturing a cartridge
- 23 [10,745,332](#) T Process for purifying a crude composition including a monoterpenoic compound, such as a monocyclic monoterpenoic alcohol, by layer melt crystallization
- 24 [10,738,248](#) T Method and apparatus for purifying a mixture comprising oil and wax
- 25 [10,737,196](#) T Aperture layout for vapor-liquid contact tray
- 26 [10,724,526](#) T Multi-stage horizontal centrifugal pump for conveying a fluid and a method for repairing the same
- 27 [10,695,505](#) T Dual-chamber syringe
- 28 [10,670,033](#) T Pump for a fluid
- 29 [10,669,374](#) T Method to minimize the transition time from one polymer grade to another polymer grade in a polymerization plant
- 30 [10,654,203](#) T Method for producing an apparatus for dispensing a medium
- 31 [10,647,641](#) T Process for the separation of ethylbenzene from other C₈ aromatic compounds
- 32 [D883,053](#) T Component discharge device
- 33 [D883,052](#) T Component discharge device
- 34 [10,639,464](#) T Discharger
- 35 [10,634,165](#) T Pumping apparatus having a flow guiding element
- 36 [10,634,164](#) T Flow machine, and flow guiding element for a flow machine
- 37 [10,634,155](#) T Pump drive unit for conveying a process fluid
- 38 [10,627,001](#) T Check valve system
- 39 [10,625,282](#) T Static spray mixer
- 40 [10,618,075](#) T Piston for dispensing a flowable component from a cartridge
- 41 [10,596,483](#) T Aperture layout for vapor-liquid contact tray
- 42 [10,589,312](#) T Housing and dispenser
- 43 [10,584,710](#) T Seal arrangement for a high-pressure pump and high-pressure pump having such a seal arrangement
- 44 [10,557,474](#) T Rotary machine and method for the heat exchange in a rotary machine
- 45 [10,550,850](#) T Pump for conveying a highly viscous fluid
- 46 [10,543,508](#) T Piston for a cartridge, cartridge and method of venting a cartridge
- 47 [D872,547](#) T Discharge device
- 48 [10,527,048](#) T Submersible pump and bearing arrangement
- 49 [10,518,958](#) T Cartridge with reduced friction
- 50 [10,495,092](#) T Pump for conveying waste water as well as impeller and base plate for such a pump

[Next List](#)[Top](#)[View Cart](#)[Home](#)[Quick](#)[Advanced](#)[Pat Num](#)[Help](#)

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Hits 51 through 100 out of 2889

[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

PAT. NO.**Title**

- 51 [10,486,189](#) [Applicator for ejecting doses of a flowable component](#)
- 52 [10,480,517](#) [Method of and arrangement for monitoring the condition of a volute casing of a centrifugal pump](#)
- 53 [10,478,851](#) [Applicator for a fluid ingredient and method of activating an applicator](#)
- 54 [10,478,316](#) [Discharge device for bone replacement materials](#)
- 55 [10,471,451](#) [Dual component dispensing and mixing systems for marine and military paints](#)
- 56 [10,464,099](#) [Dispensing plunger, dispensing apparatus comprising the dispensing plunger and method](#)
- 57 [10,444,118](#) [Method for assessing a wear state of a module of a turbomachine, module, and turbomachine](#)
- 58 [D862,546](#) [Part of dispenser for cartridges](#)
- 59 [10,434,528](#) [Cartridge, dispensing assembly and method of manufacturing a cartridge](#)
- 60 [10,434,438](#) [Fluid contact tray particularly for the use in an offshore fractionation column](#)
- 61 [10,434,256](#) [Syringe](#)
- 62 [10,399,730](#) [Set of multicomponent cartridges](#)
- 63 [10,391,517](#) [Dispenser assembly](#)
- 64 [10,377,853](#) [Process to prepare a polyester polymer composition comprising a polyester polymer having furanic units and a polyester polymer composition obtainable thereby and the use thereof](#)
- 65 [10,376,860](#) [Packing layer for structured packing](#)
- 66 [10,350,632](#) [Apparatus for dispensing a medium and method for front filling the apparatus](#)
- 67 [10,335,249](#) [Syringe for multi-component materials, method of activating a syringe, mixing and dispensing apparatus and multi-component cartridge](#)
- 68 [10,330,122](#) [Operating method for a pump, in particular for a multiphase pump, and pump](#)
- 69 [10,330,119](#) [Method for the positioning of a cover disk of a pump and pump](#)



- 70 [10,330,110](#) **Pump impeller**

71 [10,315,937](#) **T Apparatus for germ reduction of a fluid and a process for use thereof**

72 [10,300,506](#) **T Dispensing apparatus, dispensing system and method of dispensing**

73 [10,293,362](#) **T Multicomponent dispenser**

74 [10,293,311](#) **T Mixing element for a static mixer**

75 [D848,231](#) **T Component discharge device**

76 [10,280,924](#) **T Pump and method for changing the pumping capacity of a pump**

77 [10,274,015](#) **T Bearing for a pump and method of retrofitting a bearing for a pump**

78 [10,273,969](#) **T Axially split pump**

79 [10,265,721](#) **T Dispenser**

80 [10,265,713](#) **T Static spray mixer**

81 [D846,001](#) **T Discharge or suction casing of a ring section pump**

82 [10,259,635](#) **T Apparatus and methods for storing and mixing separate substances**

83 [D845,095](#) **T Component discharge device**

84 [10,247,195](#) **T Impeller for a centrifugal headbox feed pump**

85 [10,245,566](#) **T Static mixer**

86 [10,240,605](#) **T Pump control unit located in the power cord and compatible with multiple pump units**

87 [10,215,185](#) **T Pump for the conveyance of a fluid with varying viscosity**

88 [10,213,706](#) **T Process and apparatus for purification of acrylic acid**

89 [10,201,830](#) **T Dispensing device**

90 [10,201,799](#) **T Packing element for a structured packing with specific mounting clips**

91 [10,195,540](#) **T Modular sub-unit for a suspension crystallization system**

92 [10,161,378](#) **T Energy recovering equipment as well as a method for recovering energy**

93 [10,143,941](#) **T Devolatilisation apparatus and a process for use thereof**

94 [10,138,433](#) **T Method and apparatus for purifying a mixture comprising oil and wax**

95 [10,118,836](#) **T Apparatus, use of apparatus and process for desalination of water**

96 [10,112,886](#) **T Method for purification of benzoic acid**

97 [10,105,731](#) **T Cartridge, method of manufacturing same and multicomponent cartridge**

98 [10,094,222](#) **T Impeller for a centrifugal pump**

99 [10,092,861](#) **T Separation method for immiscible fluids**

100 [D829,770](#) **T Volute casing for a pump**

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

Next List

Top

[View Cart](#)

[Home](#)

Quick

Advanced

Pat Num

USPTO PATENT FULL-TEXT AND IMAGE DATABASE[Home](#)[Quick](#)[Advanced](#)[Pat Num](#)[Help](#)[Prev. List](#)[Next List](#)[Bottom](#)[View Cart](#)

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AN/Sulzer: 2889 patents.

Hits 101 through 150 out of 2889

[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

PAT. NO.**Title**

- 101 [10,082,154](#) Intake channel arrangement for a volute casing of a centrifugal pump, a flange member, a volute casing for a centrifugal pump and a centrifugal pump
- 102 [10,082,149](#) Pump, separation device for a pump, and rotor shaft for a pump
- 103 [10,066,636](#) Axially split pump
- 104 [10,066,635](#) Multiphase pump
- 105 [10,066,054](#) Continuous method for manufacturing a polyester from cyclic ester monomer
- 106 [10,065,200](#) Static spray mixer
- 107 [D826,629](#) Impeller blade for an agitator or a mixer
- 108 [10,059,799](#) Method for stabilizing a condensed phase composition including a cyclic ester in a process of manufacturing a polyester or of lactide
- 109 [10,058,796](#) Evaporator and process for use thereof
- 110 [10,058,795](#) Process and apparatus for purification of a stream containing a cyclic ester of an alpha-hydroxycarboxylic acid
- 111 [10,052,653](#) Sleeve, dispensing apparatus comprising the sleeve and method
- 112 [10,001,132](#) Axially split pump
- 113 [9,999,887](#) Apparatus for analyzing a test liquid
- 114 [9,999,842](#) Hybrid contact tray for a mass transfer column
- 115 [9,987,566](#) Hybrid contact tray for a mass transfer column
- 116 [D819,099](#) Impeller for an agitator or mixer
- 117 [9,982,697](#) Fastening element for attaching to a wall
- 118 [9,975,139](#) Cartridge and method for producing a cartridge
- 119 [9,956,578](#) Piston for dispensing a flowable component from a cartridge
-

- 120 [9,956,500](#) **Liquid mixing collector and a method for its use**
 - 121 [9,937,518](#) **T Application nozzle**
 - 122 [9,919,310](#) **T Apparatus for analyzing a test liquid**
 - 123 [9,914,148](#) **T Multicomponent dispenser**
 - 124 [9,901,946](#) **T Cartridge and multicomponent cartridge**
 - 125 [9,889,465](#) **T Dispensing apparatus**
 - 126 [9,889,390](#) **T Liquid-liquid extraction system and process for use thereof**
 - 127 [9,878,335](#) **T Spray mixer for mixing and spraying at least two flowable components**
 - 128 [9,862,001](#) **T Dispensing device**
 - 129 [9,849,403](#) **T Fractionation tray having a manway unit**
 - 130 [9,829,110](#) **T Slide ring, a shaft, a mechanical seal, a housing and a rotor for a flow machine and a flow machine**
 - 131 [9,789,429](#) **T Pre-separating vane diffuser and method for introducing a flow-mixture in a separator**
 - 132 [9,776,203](#) **T Dispensing apparatus for a multi-component mass**
 - 133 [9,770,728](#) **T Static spray mixer**
 - 134 [9,764,296](#) **T Static mixer**
 - 135 [9,752,916](#) **T Probe for monitoring the surface level of a fluid in a vessel and a method of installing the probe in the vessel**
 - 136 [9,751,092](#) **T Electrostatic coalescer and method for electrostatic coalescence**
 - 137 [9,725,558](#) **T Process to prepare a cyclic oligomer and a cyclic oligomer obtainable thereby**
 - 138 [9,718,089](#) **T Intermediate piece for the connection of a dispensing element to a storage container**
 - 139 [9,708,762](#) **T Method of and an arrangement for transferring a process liquid, an industrial facility and a method of simplifying the layout of such**
 - 140 [9,707,053](#) **T Discharging device**
 - 141 [9,702,371](#) **T Sealing arrangement and pump having a sealing arrangement**
 - 142 [9,700,840](#) **T Method for removing an ester from a vapor mixture**
 - 143 [9,688,548](#) **T Apparatus and process for desalination of water**
 - 144 [9,687,759](#) **T Apparatus for cyclone separation of a fluid flow into a gas phase and a liquid phase and vessel provided with such an apparatus**
 - 145 [9,683,575](#) **T Pump as well as a recirculation device for a pump**
 - 146 [9,683,075](#) **T Process for the continuous production of polyesters**
 - 147 [9,670,314](#) **T Poly(2-hydroxyalkanoic acid) and method of its manufacture**
 - 148 [9,664,199](#) **T Centrifugal pump, a shaft therefor and a sleeve for coupling the shaft of a centrifugal pump to a shaft of a drive motor**
 - 149 [9,663,897](#) **T Method of and an arrangement for introducing process liquid from a treatment step to a washing and/or filtering apparatus**
 - 150 [9,663,616](#) **T Method for manufacturing poly(2-hydroxyalkanoic acid), and the poly(2-hydroxyalkanoic acid) obtainable thereby**

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[Home](#)

Quick

Advanced

Pat Num

Help

Prev. List

[Next List](#)

Bottom

[View Cart](#)

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Results of Search in US Patent Collection db for:

AN/Sulzer: 2889 patents.

Hits 151 through 200 out of 2889

Prev. 50 Hits

Next 50 Hits

Jump To

AN/Sulzer

PAT.
NO.

Title

- 151 [9,656,224](#) **T** [Dynamic mixer](#)
 - 152 [9,637,587](#) **T** [Method for the manufacture of a polyhydroxy-carboxylic acid](#)
 - 153 [9,631,633](#) **T** [Rotor for a centrifugal flow machine and a centrifugal flow machine](#)
 - 154 [9,617,062](#) **T** [Discharging device](#)
 - 155 [9,616,454](#) **T** [Multicomponent cartridge for single use](#)
 - 156 [9,611,074](#) **T** [Cartridge for at least two flowable components](#)
 - 157 [9,599,150](#) **T** [Bearing pad, support body, bearing arrangement and pump](#)
 - 158 [9,597,609](#) **T** [Multi-stage crystallisation process and apparatus to purify a compound](#)
 - 159 [9,593,694](#) **T** [Pump](#)
 - 160 [D780,286](#) **T** [Fluid distribution equipment](#)
 - 161 [9,580,226](#) **T** [Dispensing apparatus](#)
 - 162 [9,579,647](#) **T** [Pipette](#)
 - 163 [9,561,087](#) **T** [Discharging device](#)
 - 164 [9,556,877](#) **T** [Pump and drive bearing for a pump](#)
 - 165 [9,555,928](#) **T** [Cartridge and multicomponent cartridge](#)
 - 166 [9,539,595](#) **T** [Dual component dispensing and mixing systems for marine and military paints](#)
 - 167 [9,527,637](#) **T** [Childproof closure for a dispensing apparatus](#)
 - 168 [9,522,366](#) **T** [Dynamic mixer](#)
 - 169 [9,517,501](#) **T** [Sheet forming tool and a method for the manufacture of a corrugated sheet](#)
 - 170 [9,504,792](#) **T** [Dispensing apparatus](#)
 - 171 [9,493,289](#) **T** [Self-supporting cartridge, dispensing apparatus for such as well as method for using the](#)

cartridge

- 172 [9,492,801](#) T Method and apparatus for mixing a first fluid with a second fluid in a mixing chamber connected to a turbine chamber

173 [9,482,345](#) T Sealing arrangement for a rotating shaft

174 [9,452,443](#) T Motorized viscous material dispenser and a method if operating a dispenser

175 [9,452,412](#) T Packing element, method to produce it and a column or reactor comprising said element

176 [9,452,371](#) T Method and system for phase inversion using a static mixer/coalescer

177 [9,441,637](#) T Volute shaped pump casing with splitter rib

178 [9,416,491](#) T Method of and an arrangement for transferring a process liquid, an industrial facility and a method of simplifying the layout of such

179 [9,409,193](#) T Dual component dispensing and mixing systems for marine and military paints

180 [9,393,531](#) T Connecting piece for a static spray mixer

181 [9,387,474](#) T Apparatus for analyzing a test liquid

182 [9,358,572](#) T Motorized viscous material dispenser

183 [D757,546](#) T Cap

184 [9,353,763](#) T Centrifugal pump, a shaft sleeve and a stationary seal member

185 [9,339,777](#) T Method, an apparatus and a rotor for homogenizing a medium

186 [9,321,577](#) T Apparatus for the storage and metering of a plurality of components

187 [9,316,314](#) T Sealing arrangement and pump having a sealing arrangement

188 [9,303,654](#) T Method for the pressure regulation of a barrier fluid and a pumping device for a method of this kind

189 [D750,991](#) T Analytical apparatus for drug testing

190 [D750,990](#) T Analytical apparatus for drug testing

191 [9,273,699](#) T Helico-axial pump, a rotor for a helico-axial pump, method for the hydrodynamic journaling of a rotor of a helico-axial pump, as well as a hybrid pump with a rotor for a helico-axial pump

192 [9,255,573](#) T Testing apparatus for an outer housing of a pump and method for the testing of an outer housing of a pump

193 [9,234,529](#) T Helico-axial pump, rotor for a helico-axial pump as well as method for journaling a rotor in a helico-axial pump

194 [9,199,206](#) T Contact tray for a mass transfer column

195 [9,188,134](#) T Flow machine for a fluid having a radial sealing gap and a stationary wear ring

196 [9,182,001](#) T Apparatus and method for the vibration control of a rising pipe of a vertical pump

197 [D742,505](#) T Applicator

198 [9,176,023](#) T Turbomachine

199 [9,174,180](#) T Agitator and a method of replacing a shaft seal of an agitator

200 [9,149,775](#) T Mixer for mixing at least two flowable components and dispensing apparatus

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AN/Sulzer: 2889 patents.

Hits 201 through 250 out of 2889

[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 201 [D739,933](#) T Applicator
- 202 [9,144,821](#) T Cartridge piston
- 203 [D739,239](#) T Cap
- 204 [9,138,045](#) T Internally fed applicator
- 205 [9,132,370](#) T Droplet precipitator
- 206 [9,101,852](#) T Fluid inlet apparatus
- 207 [D734,893](#) T Applicator
- 208 [D734,540](#) T Applicator
- 209 [9,082,595](#) T Sputtering apparatus
- 210 [D732,484](#) T Control device
- 211 [9,062,686](#) T Sealing arrangement for a rotating shaft
- 212 [9,045,412](#) T Reactive distillation process and plant for obtaining acetic acid and alcohol from the hydrolysis of methyl acetate
- 213 [D729,401](#) T Analytical apparatus
- 214 [D726,957](#) T Applicator
- 215 [D726,956](#) T Applicator
- 216 [9,004,796](#) T Application device
- 217 [8,978,929](#) T Syringe for single use
- 218 [D723,477](#) T Control device
- 219 [8,950,966](#) T Apparatus for discharging a pourable substance
- 220 [8,944,419](#) T Contact tray for a mass transfer column

- 221 [8,944,417](#) **T** [Packing layer for a structured packing](#)
- 222 [8,939,720](#) **T** [Volute shaped pump casing for a centrifugal pump](#)
- 223 [8,936,234](#) **T** [Method of mass transfer for a small liquid load](#)
- 224 [8,925,764](#) **T** [Piston securing device](#)
- 225 [8,919,616](#) **T** [Cartridge piston](#)
- 226 [8,899,412](#) **T** [Multicomponent cartridge for single use](#)
- 227 [8,876,364](#) **T** [Dynamic mixer with a seal](#)
- 228 [8,875,947](#) **T** [Dual dispensing apparatus](#)
- 229 [8,858,157](#) **T** [Centrifugal pump having an apparatus for the removal of particles](#)
- 230 [8,858,154](#) **T** [Pump system and method for delivering multi-phase mixtures](#)
- 231 [8,833,577](#) **T** [Childproof closure for a dispensing apparatus](#)
- 232 [8,820,581](#) **T** [Dispensing device for multi-component cartridges](#)
- 233 [8,814,148](#) **T** [Liquid distributor](#)
- 234 [8,807,541](#) **T** [Mass transfer column and a crown element for a mass transfer column](#)
- 235 [8,794,820](#) **T** [Apparatus for the heat-exchanging and mixing treatment of fluid media](#)
- 236 [8,794,602](#) **T** [Method of mass transfer, structured packing and mass transfer apparatus for a small liquid load](#)
- 237 [8,753,006](#) **T** [Static mixer](#)
- 238 [8,747,101](#) **T** [High velocity oxygen fuel \(HVOF\) liquid fuel gun and burner design](#)
- 239 [8,746,508](#) **T** [Multi-component cartridge](#)
- 240 [8,746,164](#) **T** [Protective coatings and methods of forming same](#)
- 241 [D705,829](#) **T** [Mixer](#)
- 242 [8,733,400](#) **T** [Inlet device for a fluid fed tangentially into an apparatus](#)
- 243 [D705,286](#) **T** [Submersible mixer](#)
- 244 [D704,798](#) **T** [Flow-through applicator](#)
- 245 [8,720,870](#) **T** [Contact tray for a mass transfer column](#)
- 246 [8,715,398](#) **T** [Method and device for purifying fluids](#)
- 247 [8,684,593](#) **T** [Static mixer having a vane pair for the generation of a flow swirl in the direction of a passage flow](#)
- 248 [D701,168](#) **T** [Actuator](#)
- 249 [8,672,188](#) **T** [Intermediate piece for the connection of a storage container to a static mixer](#)
- 250 [8,668,399](#) **T** [Dual component dispensing and mixing systems for marine and military paints](#)

| | | | | |
|----------------------------|---------------------------|--------------------------|---------------------------|----------------------|
| Prev. List | Next List | Top | View Cart | |
| Home | Quick | Advanced | Pat Num | Help |

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Hits 251 through 300 out of 2889

[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 251 [8,657,141](#) T Cartridge with integrated closure cap
- 252 [D699,763](#) T Pump housing
- 253 [8,651,731](#) T Dynamic mixer
- 254 [8,651,394](#) T Laval nozzle for thermal spraying and kinetic spraying
- 255 [8,647,434](#) T System and process for high-density, low-energy plasma enhanced vapor phase epitaxy
- 256 [8,646,662](#) T Device for dispensing a filling mass
- 257 [8,640,922](#) T Multicomponent cartridge with venting apparatus
- 258 [8,628,860](#) T Thermal spraying material, a thermally sprayed coating, a thermal spraying method and also a thermally coated workpiece
- 259 [D697,101](#) T Submersible mixer
- 260 [D696,705](#) T Submersible mixer
- 261 [8,614,029](#) T Plant with high-temperature fuel cells and a multi-component sleeve for a cell stack
- 262 [8,603,930](#) T High-purity fused and crushed zirconia alloy powder and method of producing same
- 263 [D694,266](#) T Pump impeller
- 264 [8,590,804](#) T Two stage kinetic energy spray device
- 265 [D693,394](#) T Mixer
- 266 [8,567,620](#) T Container having a shock-absorbing element
- 267 [D690,751](#) T Submersible mixer
- 268 [D690,750](#) T Submersible mixer
- 269 [D690,338](#) T Submersible mixer
- 270 [8,518,553](#) T Layered structure

- 271 [8,518,358](#) T High purity and free flowing metal oxides powder
- 272 [8,512,513](#) T Method of and apparatus for controlling the height of a column of material in a vessel upstream of a pump
- 273 [8,511,350](#) T Piston setting device and method
- 274 [D687,273](#) T Dispensing device
- 275 [8,500,907](#) T Masking system for the masking of a cylinder bore
- 276 [8,499,976](#) T Multichamber dispensing device
- 277 [8,492,318](#) T Spray material, a thermal spray layer, as well as a cylinder with a thermal spray layer
- 278 [8,492,008](#) T Cutting tool and also a method for the manufacture of a cutting tool
- 279 [8,491,180](#) T Static mixing element
- 280 [8,470,456](#) T Layer system for the formation of a surface layer on a surface of a substrate and also vaporization source for the manufacture of a layer system
- 281 [8,444,370](#) T Impeller for pumps
- 282 [D681,706](#) T Neutrode stack
- 283 [8,409,402](#) T Method and apparatus for filling and cleaning a pulp tower
- 284 [D678,338](#) T Fluid pump
- 285 [D677,702](#) T Fluid pump
- 286 [8,376,187](#) T Dispensing assembly having removably attachable accessories
- 287 [D675,526](#) T Screw cap
- 288 [8,366,906](#) T Measuring method for monitoring residual oxygen in an exhaust gas
- 289 [D675,096](#) T Screw cap
- 290 [8,361,362](#) T Method for producing expanding styrene polymer granules
- 291 [8,342,307](#) T Synchronizing ring
- 292 [8,337,152](#) T Centrifugal pump, a shaft sleeve and a stationary seal member
- 293 [8,313,232](#) T Dynamic mixer
- 294 [8,309,235](#) T Multilayer film-coated member and method for producing it
- 295 [8,309,234](#) T Multilayer film-coated member and method for producing it
- 296 [D670,247](#) T Electrode insulator
- 297 [8,304,948](#) T Rotor structure for a permanent magnet electrical machine
- 298 [8,286,832](#) T Dispensing device for single use
- 299 [8,272,823](#) T Sealing arrangement for the attachment of a side plate of a centrifugal pump and an attachment screw used therewith
- 300 [8,246,237](#) T Apparatus and method for the introduction of a foaming agent into a polymer melt

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|----------------------------|---------------------------|--------------------------|---------------------------|----------------------|
| Prev. List | Next List | Top | View Cart | |
| Home | Quick | Advanced | Pat Num | Help |

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Hits 301 through 350 out of 2889

[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 301 [8,240,673](#) T [Flow machine, slide ring seal thereof, body part for said slide ring seal and method of fastening said slide ring seal to said flow machine](#)
- 302 [8,206,792](#) T [Method for forming ceramic containing composite structure](#)
- 303 [8,197,448](#) T [Device for retaining and dispensing a free-flowing substance](#)
- 304 [8,187,717](#) T [High purity ceramic abradable coatings](#)
- 305 [8,168,261](#) T [Process for applying a heat shielding coating system on a metallic substrate](#)
- 306 [8,162,614](#) T [Workpiece, and also a welding method for the manufacture of a workpiece](#)
- 307 [8,142,402](#) T [Multichamber ampoule for dispensing a mixture consisting of several substances](#)
- 308 [8,136,799](#) T [Multiple downcomer tray](#)
- 309 [8,132,694](#) T [Dispensing device comprising a dispensing appliance and a multicomponent syringe](#)
- 310 [8,128,785](#) T [Method and apparatus for filling and cleaning a pulp tower](#)
- 311 [8,123,146](#) T [Wire combustion with increased application rates](#)
- 312 [8,119,261](#) T [Layer system for the formation of a surface layer on a surface of a substrate and also arc vaporization source for the manufacture of a layer system](#)
- 313 [8,119,015](#) T [System for generating a discrete liquid phase in a continuous liquid phase](#)
- 314 [8,114,551](#) T [Porous structured body for a fuel cell anode](#)
- 315 [8,109,447](#) T [Intrinsically safe valve for a combustion spray gun and a method of operation](#)
- 316 [8,109,387](#) T [Device for applying flowable substances](#)
- 317 [8,101,273](#) T [Coating comprising layered structures of diamond like nanocomposite layers and diamond like carbon layers](#)
- 318 [8,100,597](#) T [Arrangement for applying a liquid](#)
T

- 319 [8,084,100](#) [Method for the manufacture of a coating](#)

320 [8,066,264](#) [T Contact tray for a mass transfer column](#)

321 [8,061,890](#) [T Static mixer](#)

322 [8,056,362](#) [T Method and device for purifying high melting organic raw products or compound mixtures by means of fractionated melting crystallisation from solvent mixtures](#)

323 [8,052,845](#) [T Reflux divider for a column having portions for the transfer of material arranged in parallel](#)

324 [D647,548](#) [T Electrode](#)

325 [8,034,195](#) [T Material and method of manufacturing of a solder joint with high thermal conductivity and high electrical conductivity](#)

326 [8,033,550](#) [T Piston ring having hard multi-layer coating](#)

327 [8,033,429](#) [T Dispensing device for single use](#)

328 [8,001,927](#) [T Plasma spraying device and a method for introducing a liquid precursor into a plasma gas stream](#)

329 [7,997,450](#) [T Multicomponent cartridge](#)

330 [7,997,327](#) [T Apparatus for combined heat transfer and static mixing with a liquid](#)

331 [7,993,554](#) [T Method for the manufacture of a molding composition](#)

332 [7,992,799](#) [T Device and method for the management of data](#)

333 [7,989,023](#) [T Method of improving mixing of axial injection in thermal spray guns](#)

334 [7,988,411](#) [T Flow machine for a fluid with a radial sealing gap](#)

335 [7,981,530](#) [T Dysprosia stabilized zirconia abradable](#)

336 [D641,381](#) [T Pump casing](#)

337 [D641,380](#) [T Pump casing](#)

338 [D641,379](#) [T Pump casing](#)

339 [7,963,712](#) [T Disposable dispensing device](#)

340 [7,955,708](#) [T Optimized high temperature thermal barrier](#)

341 [7,955,707](#) [T High purity ceramic abradable coatings](#)

342 [7,954,672](#) [T Dispensing appliance for a double syringe](#)

343 [7,947,372](#) [T Substrate coated with a layered structure comprising a tetrahedral carbon layer and a softer outer layer](#)

344 [7,942,955](#) [T Static devolatilisation apparatus and method for a liquid containing polymers](#)

345 [7,935,426](#) [T Layer arrangement for the formation of a coating on a surface of a substrate, coating method, and substrate with a layer arrangement](#)

346 [7,934,864](#) [T Multicomponent foil-type container](#)

347 [7,931,836](#) [T Method for making high purity and free flowing metal oxides powder](#)

348 [7,927,312](#) [T Device for retaining and dispensing a free-flowing substance](#)

349 [7,896,039](#) [T Distributor for pairwise delivery of two liquids](#)

350 [7,892,609](#) [T Thermal spraying apparatus and also a thermal spraying process](#)

[Prev. List](#) [Next List](#) [Top](#) [View Cart](#)

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Hits **351** through **400** out of **2889**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 351 [7,891,315](#) T Powder supply system
- 352 [7,882,858](#) T Apparatus for filling storage containers on dispensing appliances
- 353 [7,874,262](#) T Masking system for the masking of a crank chamber of an internal combustion engine
- 354 [7,857,879](#) T Droplet separator
- 355 [7,855,237](#) T Plant for the manufacture of polymer particles
- 356 [7,841,765](#) T Static mixer
- 357 [7,841,481](#) T Multicomponent cartridge assembly
- 358 [7,836,843](#) T Apparatus and method of improving mixing of axial injection in thermal spray guns
- 359 [7,799,716](#) T Partially-alloyed zirconia powder
- 360 [7,799,388](#) T Mechanical seals and method of manufacture
- 361 [7,799,111](#) T Thermal spray feedstock composition
- 362 [D622,298](#) T Mixer having a colored coupling portion
- 363 [7,775,527](#) T Shaft sealing arrangement for a pump for delivering hot fluids
- 364 [D621,428](#) T Mixer having a colored coupling portion
- 365 [7,770,873](#) T Tray apparatus, column with same and method of assembling and using
- 366 [7,766,990](#) T Apparatus for the separation of liquid from a fluid flow loaded with liquid droplets
- 367 [7,763,573](#) T Method for producing composite material for coating applications
- 368 [7,759,599](#) T Interchangeable plasma nozzle interface
- 369 [7,758,916](#) T Material and method of manufacture of a solder joint with high thermal conductivity and high electrical conductivity
- 370 [7,748,577](#) T Cartridge piston

- 371 [7,736,760](#) T Ceramic abradable material with alumina dopant
372 [7,723,249](#) T Ceramic material for high temperature service
373 [7,718,280](#) T Method for the treatment of the tip of a turbine blade and a turbine blade treated with a method such as this
374 [7,712,728](#) T Liquid distributor
375 [7,708,258](#) T Tray for a mass exchange column
376 [7,695,183](#) T Static mixer apparatus for impregnating a polymer melt with a fluid expanding agent or additive
377 [D611,969](#) T Mixer having a colored coupling portion
378 [D611,968](#) T Mixer having a colored coupling portion
379 [7,678,428](#) T Plasma spraying method
380 [D611,073](#) T Mixer having a colored coupling portion
381 [7,655,141](#) T Membrane pipe module
382 [D608,800](#) T Mixer having a coupling portion
383 [D608,378](#) T Coupling portion for a mixer
384 [7,648,341](#) T Process for restoring a turbine blade
385 [7,641,995](#) T Heat exchanger for a heating system with integrated fuel cells for the production of electricity
386 [7,625,953](#) T Method and plant for the manufacture of polymer particles
387 [7,622,018](#) T Arrangement for and a method of treating pulp, and a method of modernizing a pulp tower
388 [7,592,290](#) T Supported catalyst for stream methane reforming and autothermal reforming reactions
389 [7,582,846](#) T Hybrid plasma-cold spray method and apparatus
390 [7,582,362](#) T Thermal spray compositions for abradable seals
391 [7,578,451](#) T Apparatus for thermal spraying
392 [7,540,477](#) T Tray valve for a tray column
393 [7,540,476](#) T Valve for a contact tray
394 [7,517,421](#) T Method for the continuous manufacture of tubular membranes
395 [7,513,271](#) T Fluid inlet device for an apparatus
396 [7,497,399](#) T Process and winding machine for winding a material web
397 [7,488,401](#) T Wet-laid friction material, system and method
398 [7,482,035](#) T Method of coating a substrate by a thermal application of the coating material
399 [7,481,981](#) T Apparatus for the esterification of a fatty acid
400 [7,462,393](#) T Spray powder for the manufacture of a thermally insulating layer which remains resistant at high temperatures

| | | | | |
|----------------------------|---------------------------|--------------------------|---------------------------|----------------------|
| Prev. List | Next List | Top | View Cart | |
| Home | Quick | Advanced | Pat Num | Help |

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Hits **401** through **450** out of **2889**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)

[Refine Search](#)

AN/Sulzer

**PAT.
NO.**
Title

- 401 [7,449,249](#) T Spray powder
- 402 [7,441,611](#) T Pneumatic rock drill
- 403 [7,438,840](#) T Method for introducing an additive into a flowing medium stream
- 404 [7,435,277](#) T Gas separation apparatus, a front wall and a separation rotor thereof
- 405 [7,434,479](#) T Method and an arrangement for the flow monitoring of multiphase mixtures
- 406 [7,392,930](#) T Iron-based braze filler metal for high-temperature applications
- 407 [7,390,577](#) T Spray powder
- 408 [7,387,708](#) T Process for feeding pulp into a blow tank or storage tank
- 409 [7,377,498](#) T Device in process engineering column
- 410 [7,357,068](#) T Material and process for thermal coating, surface layer and also compressor with a surface layer of the material
- 411 [7,347,886](#) T Method for introducing additives into fluids
- 412 [7,342,196](#) T Plasma spraying apparatus and also a method for monitoring the condition of a plasma apparatus
- 413 [7,338,252](#) T Pump for the transporting of fluids and of mixtures of fluids
- 414 [7,332,059](#) T Method for the manufacture of a fiber material web
- 415 [7,329,774](#) T Method and plant for the manufacture of carboxylic acid ester by means of a reactive distillation
- 416 [7,326,029](#) T Centrifugal pump and an impeller thereof
- 417 [7,325,970](#) T Static mixer
- 418 [7,322,740](#) T Static mixer for a curing mixed product
T

- 419 [7,316,503](#) **T** Static mixer

420 [7,306,643](#) **T** Method for introducing additives to liquid metal, ceramic/metallic powder

421 [7,306,427](#) **T** Sealing arrangement for the attachment of a side plate of a centrifugal pump and an attachment screw used therewith

422 [7,306,130](#) **T** Seal for a two-component cartridge

423 [7,306,126](#) **T** Multicomponent cartridge

424 [7,291,577](#) **T** Hydrometallurgical process for production of supported catalysts

425 [7,291,008](#) **T** Needle shut-off nozzle for an injection molding machine

426 [7,288,168](#) **T** Machine and method for the manufacture of a fiber material web

427 [7,287,746](#) **T** Device in a process engineering column

428 [7,267,889](#) **T** Sprayable composition

429 [7,264,689](#) **T** Method of chemically loading fibers in a fiber suspension

430 [D549,751](#) **T** Bearing unit for a pump

431 [D549,254](#) **T** Bearing unit for a pump

432 [D549,253](#) **T** Bearing housing for a pump

433 [D549,252](#) **T** Bearing housing for a pump

434 [D549,251](#) **T** Bearing housing for a pump

435 [D549,250](#) **T** Bearing unit for a pump

436 [7,223,067](#) **T** Flow machine with a ceramic abradable

437 [7,207,607](#) **T** Coaxial two-component cartridge

438 [7,179,507](#) **T** Thermal spray compositions for abradable seals

439 [7,168,544](#) **T** Friction facing material for use in a friction environment

440 [7,160,524](#) **T** Process and apparatus for the production of butylacetate and isobutylacetate

441 [7,160,109](#) **T** Torque limiting implant drive system

442 [7,138,355](#) **T** Method of preparing an ink

443 [7,135,240](#) **T** Thermal spray compositions for abradable seals

444 [7,091,367](#) **T** Method for the esterification of a fatty acid

445 [7,086,832](#) **T** High pressure rotary pump in a pot housing with a pressure cap

446 [7,077,561](#) **T** Assembly of crossing elements and method of constructing same

447 [7,052,656](#) **T** Column for carrying out an isotope exchange between a liquid substance and a gaseous substance

448 [7,052,527](#) **T** Thermal spray composition and method of deposition for abradable seals

449 [7,041,406](#) **T** Fuel cell battery with an integrated heat exchanger

450 [7,041,199](#) **T** Process and device for hydrolytically obtaining a carboxylic acid alcohol from the corresponding carboxylate

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

— 1 —

Top

[View Cart](#)

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Quick

Advanced

Pat Num

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Hits **451** through **500** out of **2889**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 451 [7,040,802](#) T Static mixer for high-viscosity media employing arcuate segments for mounting in a sleeve
- 452 [7,030,336](#) T Method of fixing anodic arc attachments of a multiple arc plasma gun and nozzle device for same
- 453 [7,021,553](#) T Space heating system with fuel cells and a connection to a public electrical network
- 454 [7,019,249](#) T Method and an apparatus for arc spraying
- 455 [7,014,024](#) T System and method for improving cooling in a friction facing environment
- 456 [7,013,287](#) T Stock preparation monitoring system and method of same
- 457 [7,008,462](#) T Thermal spray compositions for abradable seals
- 458 [7,005,045](#) T Belt for machines for producing material webs and process of producing the belt
- 459 [6,958,109](#) T Process for feeding pulp into a blow tank or storage tank
- 460 [6,945,283](#) T Measuring apparatus for measuring the cloth tension in a weaving machine and a weaving machine with a measuring apparatus of this kind
- 461 [6,942,761](#) T Press device and method of using the same
- 462 [6,938,797](#) T Expressing or dispensing device for a coaxial cartridge
- 463 [6,922,640](#) T Method for the estimating of the residual service life of an apparatus
- 464 [6,916,569](#) T Fuel cell comprising a solid electrolyte layer
- 465 [6,916,405](#) T Process and device for drying of a material web
- 466 [6,910,508](#) T Method for weaving a double layer cloth
- 467 [6,908,532](#) T Press belt
- 468 [6,902,617](#) T Method of welding single crystals
- 469 [6,896,647](#) T Elastic roller and process for producing same

T

- 470 [6,890,408](#) [T Headbox for the metered addition of a fluid medium into a suspension stream](#)
- 471 [6,887,530](#) [T Thermal spray compositions for abradable seals](#)
- 472 [6,886,604](#) [T Apparatus at a weaving machine for the protection of persons](#)
- 473 [6,875,298](#) [T Process for manufacturing molded articles provided with cavities](#)
- 474 [6,872,480](#) [T Method for operating a fuel cell battery](#)
- 475 [6,872,379](#) [T Method for the reformation of fuels, in particular heating oil](#)
- 476 [6,869,550](#) [T Method of producing a pre-alloyed stabilized zirconia powder](#)
- 477 [6,866,171](#) [T Method for introducing additives](#)
- 478 [6,855,248](#) [T Process for distilling fischer-tropsch derived paraffinic hydrocarbons](#)
- 479 [6,854,385](#) [T Elastic roll for smoothing paper webs](#)
- 480 [6,845,281](#) [T Control and/or regulating system for a machine used for producing a fiber web](#)
- 481 [6,817,596](#) [T Tray column](#)
- 482 [6,817,051](#) [T Guide apparatus for a workpiece having a porous surface coating and a method for the polishing of such a workpiece](#)
- 483 [6,811,302](#) [T Pipe member having an infeed point for an additive](#)
- 484 [6,808,756](#) [T Thermal spray composition and method of deposition for abradable seals](#)
- 485 [6,796,338](#) [T Air jet weaving machine and compressed air supply for same](#)
- 486 [6,789,984](#) [T Process and apparatus for drilling holes in the shell of a cylinder](#)
- 487 [6,783,710](#) [T Method for the production of expandable plastics granulate](#)
- 488 [6,769,801](#) [T Static mixer with precision cast elements](#)
- 489 [6,769,564](#) [T Breech for dual component cartridge with a manual-detachable snap-in connection](#)
- 490 [6,759,085](#) [T Method and apparatus for low pressure cold spraying](#)
- 491 [6,755,864](#) [T Tibia part for a knee joint prosthesis and a kit with a tibia part of this kind](#)
- 492 [6,755,857](#) [T Polymer heart valve with perforated stent and sewing cuff](#)
- 493 [6,749,146](#) [T Process and apparatus for threading a material web onto a reel](#)
- 494 [6,746,574](#) [T Machine and method for the manufacture of a fiber material web](#)
- 495 [6,746,244](#) [T Method for immediately placing a non-occlusive dental implant prosthesis](#)
- 496 [6,743,337](#) [T Process and apparatus for determining the properties of a traveling material web](#)
- 497 [6,743,231](#) [T Temporary spinal fixation apparatuses and methods](#)
- 498 [6,740,091](#) [T Lordotic spinal implant](#)
- 499 [6,723,459](#) [T Plant with high temperature fuel cells](#)
- 500 [6,717,675](#) [T System and method for determining fiber orientation in fibrous material webs](#)

[Prev. List](#) [Next List](#) [Top](#) [View Cart](#)

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AN/Sulzer

**PAT.
NO.****Title**

- 501 [6,705,562](#) T Roll winding device and method of increasing rigidity of such device
- 502 [6,705,554](#) T Rotor for a paper stock processing machine, anti-wear element for such a rotor, and paper stock processing apparatus
- 503 [6,702,926](#) T Process for forming a multi-ply fiber web
- 504 [6,702,816](#) T Femur marrow nail for insertion at the knee joint
- 505 [6,701,882](#) T Surface layer for the working surface of the cylinders of a combustion engine and process of applying the surface layer
- 506 [6,701,833](#) T Calender
- 507 [6,695,008](#) T Liquid distributor for columns
- 508 [6,694,640](#) T Calender humidity control system and method
- 509 [6,693,213](#) T Method of producing ethyl acetate and an equipment for carrying out this method
- 510 [6,685,063](#) T Cartridge plunger with gas evacuation
- 511 [6,682,836](#) T Method for the operation of a fuel cell battery comprising a control system
- 512 [6,681,870](#) T Hydraulic actuator
- 513 [6,676,662](#) T Bone instruments and methods
- 514 [6,676,286](#) T Component for a static mixer
- 515 [6,675,494](#) T System for drying a web and process
- 516 [6,669,734](#) T Femur shaft prosthesis with a proximal centering apparatus
- 517 [6,668,711](#) T Elastic roller, method for producing same device for smoothing paper and method for smoothing paper
- 518 [6,660,037](#) T Intervertebral prosthesis
- T

- 519 [6,659,997](#) [Operating tool](#)

520 [6,649,264](#) [Compound material comprising fibers which are embedded in a thermoplastic](#)

521 [6,648,896](#) [Spreader apparatus for knee joints](#)

522 [6,645,420](#) [Method of forming a semipermeable membrane with intercommunicating pores for a pressing apparatus](#)

523 [6,645,248](#) [Artificial intervertebral disc](#)

524 [6,641,582](#) [Bone preparation instruments and methods](#)

525 [6,641,017](#) [Process and device for laterally positioning a material web](#)

526 [6,638,395](#) [Paper machine and process](#)

527 [6,635,060](#) [Bone preparation instruments and methods](#)

528 [6,631,860](#) [Guide member for a liquid jet to be deflected](#)

529 [6,629,976](#) [Radius marrow nail](#)

530 [6,626,943](#) [Artificial intervertebral disc](#)

531 [6,626,905](#) [Posterior oblique lumbar arthrodesis](#)

532 [6,623,601](#) [Roll for paper-making machine](#)

533 [6,623,572](#) [Pulper with extraction plate assembly having removable inserts and method of manufacturing same](#)

534 [6,616,667](#) [Surgical instrument for tensioning a cable-like tensioning element](#)

535 [6,613,386](#) [Apparatus and method for direct or indirect application of a liquid or pasty medium onto a traveling material web](#)

536 [6,610,094](#) [Intervertebral prosthesis](#)

537 [6,606,089](#) [Method for visualizing a spatially resolved data set](#)

538 [6,604,850](#) [Vortex static mixer](#)

539 [6,602,388](#) [Process for forming headbox for a machine](#)

540 [6,599,395](#) [Method and apparatus to produce paper webs coated on both sides](#)

541 [6,599,320](#) [Alignment guide assembly for spinal stabilization](#)

542 [6,599,008](#) [Static mixer](#)

543 [6,598,766](#) [Ventilation device for a piston for a cartridge](#)

544 [6,595,999](#) [Drilling jig for the determination of the axis of a femur head prosthesis](#)

545 [6,595,682](#) [Mixing element for a flange transition in a pipeline](#)

546 [6,592,340](#) [Control system for a vacuum pump used for removing liquid and a method of controlling said pump](#)

547 [6,591,998](#) [Leakproof container for implantable prosthetic device](#)

548 [6,589,395](#) [Distillation plant with a column and a heat pump](#)

549 [6,589,393](#) [Press arrangement and press roll for such a press arrangement](#)

550 [6,589,340](#) [Machine for direct or indirect application of a liquid or viscous coating medium onto a moving surface](#)

[Prev. List](#) [Next List](#) [Top](#) [View Cart](#)

[Home](#) [Quick](#) [Advanced](#) [Pat Num](#) [Help](#)

USPTO PATENT FULL-TEXT AND IMAGE DATABASE[Home](#)[Quick](#)[Advanced](#)[Pat Num](#)[Help](#)[Prev. List](#)[Next List](#)[Bottom](#)[View Cart](#)

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Hits **551** through **600** out of **2889**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 551 [6,589,145](#) Roll and calender
- 552 [6,587,737](#) Method for the monitoring of a plant
- 553 [6,585,860](#) Method to control or regulate the basis weight of a paper or cardboard web
- 554 [6,585,749](#) Surgical implant instrument and method
- 555 [6,585,116](#) Screening apparatus for fiber suspension
- 556 [6,584,688](#) Processes for manufacture of a press jacket
- 557 [6,582,471](#) Composition and device for in vivo cartilage repair
- 558 [6,579,368](#) Apparatus for the application of a liquid or pasty medium to a moving fiber web
- 559 [6,578,539](#) Surface layer forming a cylinder barrel surface, a spraying powder suitable therefor and a method of creating such a surface layer
- 560 [6,577,916](#) Method of carrying out an optimized fiber or paper manufacturing process
- 561 [6,575,617](#) Static mixer with profiled layers
- 562 [6,575,438](#) Stepped downcomer apparatus and vapor-liquid contact apparatus with same
- 563 [6,575,437](#) Counterflow column with a liquid distributor
- 564 [6,572,931](#) Method of applying a ferrous coating to a substrate serving as a cylinder working surface of a combustion engine block
- 565 [6,572,704](#) Apparatus for protecting cylinder walls of an engine block during a thermal coatings operation
- 566 [6,571,957](#) Screening apparatus for fiber suspension
- 567 [6,569,554](#) Fuel cell battery with a stack of planar cells
- 568 [6,569,291](#) Liquid distributor for separation columns
- 569 [6,568,152](#) Process and device for packaging a material web roll

- 570 [6,562,041](#) [Apparatus and method for spinal stabilization](#)

571 [6,558,557](#) [T Process and a decker for bringing together two suspension layers](#)

572 [6,558,427](#) [T Knee implant](#)

573 [6,558,388](#) [T Intramedullary nail for the humerus](#)

574 [6,554,866](#) [T Mono-condylar knee joint prosthesis](#)

575 [6,551,730](#) [T Aluminum oxide based thick layers produced by plasma jet spraying](#)

576 [6,551,460](#) [T Process for sealing pressure zones in a paper-making machine](#)

577 [6,551,054](#) [T Method and apparatus for pumping a material and a rotor for use in connection therewith](#)

578 [6,548,195](#) [T Coating for the working surface of the cylinders of combustion engines and a method of applying such a coating](#)

579 [6,547,789](#) [T Holding apparatus for the spinal column](#)

580 [6,546,966](#) [T Apparatus for making available a leno thread for a weaving machine](#)

581 [6,544,272](#) [T Tissue holder](#)

582 [6,540,746](#) [T Bone plate for splinting a fracture at a bone with a plurality of bone screws](#)

583 [6,540,213](#) [T Column comprising a base between filler body sections](#)

584 [6,536,705](#) [T Process and winding machine for winding a material web](#)

585 [6,536,443](#) [T Apparatus for regulating the breaking length ratio of a manufactured paper web](#)

586 [6,534,113](#) [T Method of controlling the amount of coating applied on a moving material web](#)

587 [6,533,895](#) [T Apparatus and method for chemically loading fibers in a fiber suspension](#)

588 [6,533,791](#) [T Instrument system for the operative correction of vertebral displacements](#)

589 [6,530,928](#) [T Instrument, instrument set and a method for the introduction of an osteochondral transplant](#)

590 [6,528,107](#) [T Method for producing antimicrobial antithrombogenic medical devices](#)

591 [6,527,805](#) [T Intervertebral implant](#)

592 [6,527,258](#) [T Apparatus for the collection and distribution of liquid in a column](#)

593 [6,527,218](#) [T Device for winding of rolls and winding process](#)

594 [6,526,369](#) [T Apparatus and process for a cross-direction profile of a material web](#)

595 [6,524,704](#) [T Thermal spray powder of dicalcium silicate and coating thereof and manufacture thereof](#)

596 [6,524,443](#) [T Pulping system for a paper machine](#)

597 [6,524,441](#) [T Process for detecting and correcting a fiber orientation cross direction profile change](#)

598 [6,524,318](#) [T Spinal surgery instruments and methods](#)

599 [6,523,465](#) [T Process for presetting a calender and calender for implementing the process](#)

600 [6,521,089](#) [T Process for controlling or regulating the basis weight of a paper or cardboard web](#)

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

Next List

[Top](#)

[View Cart](#)

Home

Quick

Advanced

Part Num

Help

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[Home](#)

Quick

Advanced

Pat Num

Help

Prev. List

[Next List](#)

Bottom

[View Cart](#)

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AN/Sulzer: 2889 patents.

Hits 601 through 650 out of 2889

Prev. 50 Hits

Next 50 Hits

Jump To

[Refine Search](#)

AN/Sulzer

PAT.
NO.

Title

- 601 [6,520,966](#) T Setting instrument for a tibia part of a knee joint prosthesis
 - 602 [6,520,897](#) T Resilient roll and process for producing such a roll
 - 603 [6,520,896](#) T Elastic roll and a process for producing such a roll
 - 604 [6,520,702](#) T Adapter for a static mixer
 - 605 [6,520,381](#) T Ejection device for a cartridge
 - 606 [6,520,217](#) T Weaving machine transmission for the control of the stroke of a sley shaft
 - 607 [6,517,582](#) T Ball draw-off apparatus for shaft prostheses
 - 608 [6,516,830](#) T Device for guiding backwater produced in a paper machine
 - 609 [6,514,514](#) T Device and method for regeneration and repair of cartilage lesions
 - 610 [6,511,958](#) T Compositions for regeneration and repair of cartilage lesions
 - 611 [6,511,051](#) T Ordered column packing with a fine structuring
 - 612 [6,510,871](#) T Apparatus for the manufacture of leno fabrics
 - 613 [6,508,429](#) T Linear drive assembly and process of using same
 - 614 [6,503,577](#) T Method of thermally coating a cylinder barrel of a cylinder block of a combustion engine
 - 615 [6,503,576](#) T Superalloy HVOF powders with improved high temperature oxidation, corrosion and creep resistance
 - 616 [6,503,466](#) T Apparatus and method for chemically loading fibers in a fiber suspension
 - 617 [6,503,325](#) T Device and method for applying a coating medium onto a moving surface
 - 618 [6,502,434](#) T Effluent shower for pulp washer
 - 619 [6,500,048](#) T Method for separating profiled foils
 - 620 [6,498,646](#) T Apparatus and process for determining the properties of a material web

- 621 [6,497,792](#) T Paper machine using metal screen for press section and dryer cylinders

622 [6,497,788](#) T Backwater cycle and process for the water circulation of a paper machine

623 [6,494,992](#) T Vacuum conveyor

624 [6,494,988](#) T Process for improving the surface of offset paper

625 [6,494,954](#) T Method and apparatus for directly or indirectly applying a liquid or pasty application medium to one or both sides of a continuous surface

626 [6,494,675](#) T Flow machine for a fluid with a radial sealing gap between stator parts and a rotor

627 [6,494,348](#) T Cartridge piston

628 [6,492,327](#) T Isolation of purified TGF-.beta.1 and TGF -.beta.2 from bone tissue

629 [6,491,754](#) T Carbon fiber doctor blade

630 [6,491,188](#) T Revolver valve for discharging a pressurized vessel in a fiber stock preparation system

631 [6,491,068](#) T Apparatus for heating lubricating oil in a weaving machine

632 [6,490,928](#) T Method and arrangement for judging the friction behavior between two counter-running partners

633 [6,490,813](#) T Drying and smoothing unit for webs of fibrous material

634 [6,488,810](#) T Process and device for producing a fibrous material web

635 [6,487,789](#) T Heated cylinder and process of using same

636 [6,485,571](#) T Paper manufacturing and processing machine with closed loop control system

637 [6,482,295](#) T Process and device for drying of a material web

638 [6,482,076](#) T Method for producing a surface structure, in particular on a surgical implant

639 [6,479,079](#) T Anticalcification treatments for fixed biomaterials

640 [6,478,819](#) T Prosthetic heart valves with flexible post geometry

641 [6,475,343](#) T Process and device for dewatering a fibrous material web

642 [6,475,281](#) T Applicator for direct or indirect application of a liquid or pasty coating medium onto a traveling material web

643 [6,475,239](#) T Method for making polymer heart valves with leaflets having uncut free edges

644 [6,474,205](#) T Device for cutting off and conveying streaks and method for cutting off and transferring a threading streak

645 [6,471,828](#) T Headbox

646 [6,471,825](#) T Method for deflocculating and chemically loading fibers in a fiber suspension with calcium carbonate

647 [6,471,626](#) T Resilient roll for smoothing webs

648 [6,468,588](#) T Apparatus and method for application of a liquid or pasty medium onto a passing substrate

649 [6,468,280](#) T Unicompartimental replacement instrument and method

650 [6,467,720](#) T Process for winding a material web and winding machine for performing the process

| | | | | |
|----------------------------|---------------------------|--------------------------|---------------------------|----------------------|
| Prev. List | Next List | Top | View Cart | |
| Home | Quick | Advanced | Pat Num | Help |

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Hits **651** through **700** out of **2889**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 651 [6,465,923](#) T [Magnetically journaled electrical drive](#)
- 652 [6,464,837](#) T [Headbox and process for the metered addition of a fluid medium into a suspension stream of a headbox](#)
- 653 [6,464,161](#) T [Process for severing a traveling material web and device for performing the process](#)
- 654 [6,463,677](#) T [Method and device for moisture profiling](#)
- 655 [6,461,559](#) T [Method for shaping strip-like films](#)
- 656 [6,461,478](#) T [Method and device for treating a fibrous material web](#)
- 657 [6,461,360](#) T [Locking nail for the repair of femur shaft fractures](#)
- 658 [6,458,992](#) T [Process and apparatus for the production of butylacetate and isobutylacetate](#)
- 659 [6,457,939](#) T [Profiled surface used as an abradable in flow machines](#)
- 660 [6,457,722](#) T [Sealing element for dry running systems and the use of a sealing element of this kind](#)
- 661 [6,454,798](#) T [Polymer heart valve with helical coaption surface](#)
- 662 [6,453,062](#) T [Final assembly visual inspection system for packaged heart valves](#)
- 663 [6,447,549](#) T [Modular knee prosthesis system](#)
- 664 [6,447,543](#) T [Basket-like container for implanting bone tissue](#)
- 665 [6,444,090](#) T [Process and device for spraying a moving fibrous web](#)
- 666 [6,444,030](#) T [Apparatus for applying a liquid or viscid coating medium onto a moving fiber material web](#)
- 667 [6,443,459](#) T [Sealing arrangement between two components rotating relative to one another](#)
- 668 [6,443,353](#) T [Fittings and process for producing fittings for the mechanical processing of aqueous paper stock](#)
- 669 [6,442,868](#) T [Heated drying cylinder](#)

T

- 670 [6,442,865](#) [Drying section](#)

671 [6,440,272](#) [T Device for mixing stock suspensions](#)

672 [6,436,239](#) [T Method to reduce the adhesion of a damp fibrous material web to a rotating roll](#)

673 [6,432,567](#) [T Fuel cell battery with afterburning at the periphery of a cell stack](#)

674 [6,431,868](#) [T Dental implant having a force distribution shell to reduce stress shielding](#)

675 [6,431,223](#) [T Bringer gripper for looms without shuttles](#)

676 [6,428,455](#) [T Resilient roll](#)

677 [6,428,200](#) [T Static laminar mixing method](#)

678 [6,427,938](#) [T Process and apparatus for cutting a running material web](#)

679 [6,425,986](#) [T Process for degassing a paper stock suspension](#)

680 [6,425,980](#) [T Press device and process for treating a material web](#)

681 [6,425,897](#) [T Pistol for the pressing out of bone cement with an attachable cement syringe](#)

682 [6,425,513](#) [T Device and method for transferring a threading strip or a material strip](#)

683 [6,425,512](#) [T Web handling process](#)

684 [6,425,190](#) [T Method and device for moisture profiling](#)

685 [6,423,181](#) [T Gravure paper and manufacturing process for this paper](#)

686 [6,423,097](#) [T Artificial finger joint](#)

687 [6,423,059](#) [T Radio frequency ablation apparatus with remotely articulating and self-locking electrode wand](#)

688 [6,422,496](#) [T Refiner for refining a fiber suspension](#)

689 [6,419,794](#) [T Method and apparatus for damping contact oscillations of rotating rolls](#)

690 [6,419,793](#) [T Paper making apparatus having pressurized chamber](#)

691 [6,419,707](#) [T Artificial knee with rotatable meniscus](#)

692 [6,419,705](#) [T Expandable fusion device and method](#)

693 [6,419,386](#) [T Static laminar mixing device](#)

694 [6,416,631](#) [T Pressing apparatus having semipermeable membrane](#)

695 [6,416,630](#) [T Press jacket and method for treating a material web](#)

696 [6,416,580](#) [T Method and apparatus for applying a liquid or pasty medium on a traveling material web](#)

697 [6,416,549](#) [T Antithrombogenic annuloplasty ring having a biodegradable insert](#)

698 [6,416,548](#) [T Antimicrobial annuloplasty ring having a biodegradable insert](#)

699 [6,416,324](#) [T One step dental implant delivery system](#)

700 [6,413,366](#) [T Method and device for flotation of pollutants from an aqueous fibrous material suspension](#)

[[Prev.](#), [List](#)]

Next List

Top

[View Cart](#)

[Home](#)

Quick

Advanced

Part Num

Help

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Hits **701 through 750 out of 2889**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 701 [6,410,100](#) T Method of applying a coating medium on a traveling fiber material web
- 702 [6,409,880](#) T Apparatus and process for removing fine impurities from a fibrous suspension
- 703 [6,409,836](#) T Apparatus for direct or indirect application of a liquid or pasty coating medium onto a traveling material web, notably of paper or cardboard
- 704 [6,409,644](#) T Sag compensation roll and process for the operation thereof
- 705 [6,409,378](#) T Filler body with a cross channel structure
- 706 [6,409,023](#) T Process and device for fractioning a suspension containing paper fibers
- 707 [6,406,596](#) T Press roll press system having same and method of treating a fibrous material web using same
- 708 [6,406,496](#) T Humerus head prosthesis
- 709 [6,406,495](#) T Glenoid prosthesis and a modular system with glenoid prostheses
- 710 [6,406,492](#) T Annuloplasty ring holder
- 711 [6,406,417](#) T Device for continuously winding up longitudinally cut paper webs with rolls changed automatically at the machine speed
- 712 [6,406,414](#) T Press jacket and processes for its manufacture
- 713 [6,405,914](#) T Vacuum conveyor
- 714 [6,405,790](#) T Roll
- 715 [6,402,889](#) T Calender web threading device and method
- 716 [6,402,842](#) T Stationary sliding bar
- 717 [6,402,515](#) T Dental implant with variable profile thread
- 718 [6,402,082](#) T Winding machine and process for winding a material web
- 719 [6,402,005](#) T Process and device for handling a material web
- T

- 720 [6,398,969](#) [Hydrocyclone and process for removing foreign substances from a liquid](#)

721 [6,398,783](#) [T Multi-lock anterior cervical plate](#)

722 [6,397,493](#) [T Machine for producing and/or treating a material web](#)

723 [6,395,132](#) [T Washing system and washer for a fiber suspension](#)

724 [6,395,131](#) [T Flotation machine for a fiber suspension and method of using same](#)

725 [6,395,004](#) [T Orthopedic trial prosthesis and saw guide instrument](#)

726 [6,394,331](#) [T Device and process for separating and transferring a leader strip](#)

727 [6,394,279](#) [T Flotation machine for a fiber suspension and method of using same](#)

728 [6,391,157](#) [T Device and process for producing a paper web](#)

729 [6,391,058](#) [T Threaded spinal implant with convex trailing surface](#)

730 [6,390,789](#) [T Cooling means for the motor of a turbocompressor](#)

731 [6,390,408](#) [T Device and process for winding a material web](#)

732 [6,387,693](#) [T Method for producing cartilage tissue and implants for repairing enchondral and osteochondral defects as well as arrangement for carrying out the method](#)

733 [6,387,220](#) [T Vacuum conveyor](#)

734 [6,387,214](#) [T Device to actively weaken undesirable vibrations in a rotating roll; device for treatment of a material web, specifically a paper or cardboard web](#)

735 [6,386,477](#) [T Station for continuous unwinding of a material web](#)

736 [6,386,140](#) [T Plasma spraying apparatus](#)

737 [6,383,340](#) [T Press arrangement and process](#)

738 [6,383,338](#) [T Shoe press roll](#)

739 [6,383,337](#) [T Method and device for applying a medium on a running web of material](#)

740 [6,382,976](#) [T Dental implant having round bottom with fluid directing channels](#)

741 [6,382,262](#) [T Apparatus for forming a leno weave](#)

742 [6,382,261](#) [T Laying rail structure for a series shed laying-in apparatus](#)

743 [6,382,066](#) [T Method and device for slitting a material web](#)

744 [6,381,868](#) [T Device for dewatering a material web](#)

745 [6,379,502](#) [T Process and device for transferring a traveling material web](#)

746 [6,379,290](#) [T Elastic roll and process of producing the same](#)

747 [6,378,875](#) [T Sealing ring](#)

748 [6,375,800](#) [T Press section and process](#)

749 [6,375,799](#) [T Process and apparatus for producing a fibrous material web](#)

750 [6,372,294](#) [T Manufacture of unidirectional fiber reinforced thermoplastics](#)

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

[Next List](#)

Top

[View Cart](#)

[Home](#)

Quick

Advanced

Pat Num

Help

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[Home](#)

Quick

Advanced

Pat Num

Help

Prev. List

[Next List](#)

Bottom

[View Cart](#)

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Hits 751 through 800 out of 2889

Prev. 50 Hits

Next 50 Hits

Jump To

[Refine Search](#)

AN/Sulzer

PAT. NO.

Title

- 751 [6,372,092](#) T Headbox and process for supplying a material suspension

752 [6,372,046](#) T Device for the direct or indirect application of a liquid or viscid coating medium onto a moving material web

753 [6,371,454](#) T Downcomer to a plate column

754 [6,371,169](#) T Method for the operation of a thread supplying apparatus of a weaving machine

755 [6,370,848](#) T Process and device for packaging material web rolls

756 [RE37,646](#) T Dental implant system

757 [6,368,666](#) T Apparatus and process for applying liquid or viscid coating medium onto a coating area of a moving substrate

758 [6,368,461](#) T Device to control or regulate the basis weight of a paper or cardboard web

759 [6,368,458](#) T Calender press for a paper-making machine with thermally compensated top and bottom rolls and low nip load

760 [6,368,350](#) T Intervertebral disc prosthesis and method

761 [6,368,347](#) T Expanded polytetrafluoroethylene vascular graft with coating

762 [6,368,108](#) T Method for immediately placing a non-occlusive dental implant prosthesis

763 [6,367,808](#) T Sealing ring for a dry running piston rod

764 [6,365,003](#) T Apparatus and process for processing a material web

765 [6,364,959](#) T Process for cleaning a transport belt

766 [6,364,905](#) T Tri-composite, full root, stentless valve

767 [6,364,243](#) T Reel winding arrangement and process

768 [6,364,240](#) T Process and winding machine for winding a material web

769 [6,363,601](#) T Process for the production of fittings and of a machine for the mechanical processing of

suspended fibrous material as well as fittings and a machine produced according to the process

- 770 [6,361,658](#) T [Press section](#)

771 [6,361,539](#) T [Filling transfer apparatus for bone cement](#)

772 [6,361,506](#) T [Incremental varus/valgus and flexion/extension measuring instrument](#)

773 [6,361,254](#) T [Process and apparatus for drilling holes in the shell of a cylinder](#)

774 [6,360,983](#) T [Reel winding device and process for supporting a winding reel](#)

775 [6,358,368](#) T [Support beam unit method of adjustment for a support beam unit](#)

776 [6,358,367](#) T [Pulping system for a paper machine](#)

777 [6,358,282](#) T [Method for the releasing of an insert from the shell of an artifical joint pan and artifical joint pan](#)

778 [6,358,275](#) T [Tissue-derived vascular grafts and methods for making the same](#)

779 [6,358,240](#) T [Low profile flexible pusher rotator](#)

780 [6,358,152](#) T [Medical/technical tool holder apparatus with torque limitation and a shear body for an apparatus of this kind](#)

781 [6,357,755](#) T [Sealing elements for dry running piston compressors](#)

782 [6,357,386](#) T [Assembly for controlling the gas flow in a plasma spraying apparatus](#)

783 [6,355,138](#) T [Method of chemically loading fibers in a fiber suspension](#)

784 [6,355,043](#) T [Bone screw for anchoring a marrow nail](#)

785 [6,352,616](#) T [Jointless lamellae for a headbox](#)

786 [6,352,554](#) T [Prosthetic tubular aortic conduit and method for manufacturing the same](#)

787 [6,349,567](#) T [Packing with a cross channel structure for a material exchange column with a high specific separation performance](#)

788 [6,349,469](#) T [Method of aligning a freely carrying bearing assembly on a cylinder in a fiber-making machine](#)

789 [6,348,068](#) T [Multi-filament valve stent for a cardisc valvular prosthesis](#)

790 [6,347,647](#) T [Stationary thread guiding element for a series shed weaving machine](#)

791 [6,346,171](#) T [Paper making machine using separate metal screens for press and dryer cylinders](#)

792 [6,346,134](#) T [Superalloy HVOF powders with improved high temperature oxidation, corrosion and creep resistance](#)

793 [6,342,126](#) T [Wire section, belt guidance device, and process for forming fibrous material web in wire section](#)

794 [6,342,077](#) T [Cementable shaft prosthesis](#)

795 [6,341,765](#) T [Method for the infeed of a fluid into an apparatus](#)

796 [6,340,370](#) T [Modular set of an outer shell for an artificial hip joint cup](#)

797 [6,339,883](#) T [Method of making a roll for paper-making machine](#)

798 [6,338,706](#) T [Roll, and process for producing a roll](#)

799 [6,336,996](#) T [Process and device for the transfer of a fibrous material web](#)

800 [6,336,398](#) T [Calender for webs of paper or a similar material](#)

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Results of Search in US Patent Collection db for:

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Hits **801 through 850 out of 2889**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 801 [6,334,934](#) T Sealing device and process for sealing pressure zones in a paper-making machine
- 802 [6,334,932](#) T Press arrangement and process
- 803 [6,334,930](#) T Measurement device for quantitatively detecting constituents of a pulp/fluid mixture
- 804 [6,334,712](#) T Deflection compensation roll and process for supporting a roll jacket on a crosspiece of the deflection compensation roll
- 805 [6,332,955](#) T Press arrangement and method for treating a fibrous web
- 806 [6,332,589](#) T Winding machine having continuous loop and tension device and process for using winding machine
- 807 [6,332,587](#) T Process for threading material web onto reel and device for process
- 808 [6,328,762](#) T Prosthetic grafts
- 809 [6,328,248](#) T Winding machine and winding method
- 810 [6,328,194](#) T Device for handling a material web
- 811 [6,328,182](#) T Two-component cartridge
- 812 [6,325,960](#) T Calender for fibrous material webs and method of operating same
- 813 [6,325,895](#) T Paper-making machine with an air press belt run
- 814 [6,325,894](#) T Press section and method of using the same
- 815 [6,325,321](#) T Process for operating a reel winding device, a reel winding device, and a measuring device
- 816 [6,325,320](#) T Winding device and process for winding a web material
- 817 [6,325,265](#) T Feed accessory apparatus and process for feeding the tail of a material web into a roll machine
- 818 [6,322,664](#) T Method of processing recycled waste paper by separating fibers of different colors
- 819 [6,322,627](#) T Applicator device

T

- 820 [6,322,593](#) [Method for treating cross-linked biological tissues](#)

821 [6,322,080](#) [T Sealing arrangement](#)

822 [6,322,020](#) [T Reel winding device and process having cutter holder movable in accordance with a wound roll diameter](#)

823 [6,319,615](#) [T Use of a thermal spray method for the manufacture of a heat insulating coat](#)

824 [6,319,560](#) [T Apparatus and method for coating the outer surface of a workpiece](#)

825 [6,319,363](#) [T Sheet forming system and method for controlling the same](#)

826 [6,319,359](#) [T Process for quantitatively detecting constituents of a pulp/fluid mixture](#)

827 [6,319,320](#) [T Coating machine](#)

828 [6,319,256](#) [T Bone rasp for a femur head prosthesis](#)

829 [6,319,185](#) [T Resilient roll and process for producing such a roll](#)

830 [6,316,136](#) [T Interconnector for high temperature fuel cells](#)

831 [6,315,704](#) [T Roll for smoothing paper webs](#)

832 [6,315,453](#) [T Liquid lubricated radial sliding bearing](#)

833 [6,312,564](#) [T Sealing device and process for sealing pressure zones in a paper-making machine](#)

834 [6,312,465](#) [T Heart valve prosthesis with a resiliently deformable retaining member](#)

835 [6,311,922](#) [T Method and apparatus for winding a material web](#)

836 [6,311,921](#) [T Winding device and method for winding web material](#)

837 [6,311,850](#) [T Pressure screening apparatus for screening a paper stock suspension and screen clearer for such a screening apparatus](#)

838 [6,309,704](#) [T Method for direct or indirect application of liquid or viscous coating medium onto a moving material web](#)

839 [6,309,463](#) [T Device for direct or indirect application of liquid or viscous coating medium onto a moving material web](#)

840 [6,308,742](#) [T Apparatus and method for the preparation of a leno thread for a weaving machine](#)

841 [6,306,261](#) [T Dewatering device and process and glazing device and process](#)

842 [6,305,435](#) [T Weaving machine with an insertion system for a plurality of generally different weft threads](#)

843 [6,305,280](#) [T Calender for material webs and method for calendering material webs](#)

844 [6,303,243](#) [T Plant with high temperature fuel cells II](#)

845 [6,303,004](#) [T Stock inlet](#)

846 [6,303,001](#) [T Process for improving the shrinkage cross direction profile and paper having an improved cross](#)

847 [6,302,399](#) [T Sealing device and process for sealing a moving surface with the sealing device](#)

848 [6,299,733](#) [T Roll with composite material roll shell and head in a paper-making machine](#)

849 [6,299,731](#) [T Process and headbox system for improving consistency cross-direction profile of fiber web](#)

850 [6,299,728](#) [T Multi-ply paper](#)

[Prev. List](#) [Next List](#) [Top](#) [View Cart](#)

[Next List](#)

Top

[View Cart](#)

[Home](#)

Quick

Advanced

Bat Num

Help

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Hits 851 through 900 out of 2889

[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 851 [6,299,638](#) T Method of attachment of large-bore aortic graft to an aortic valve
- 852 [6,298,634](#) T Process and device for producing a wound roll that is wrapped on its circumference, and the wound roll
- 853 [6,296,662](#) T Bioprosthetic heart valve with balanced stent post deflection
- 854 [6,294,050](#) T Drying end of a machine for the production of a material web and method of drying a material web
- 855 [6,293,526](#) T Liquid distributor for packing columns
- 856 [6,293,113](#) T Cooling system and process for a paper or cardboard machine
- 857 [6,290,816](#) T Paper machine with closed loop control system
- 858 [6,290,704](#) T Apparatus and method for anterior and posterior referenced sizing and distal femur resection
- 859 [6,290,168](#) T Reel winding device and process of winding
- 860 [6,287,427](#) T Pressing apparatus having chamber sealing
- 861 [6,287,420](#) T Multi-ply fiber web forming method and apparatus
- 862 [6,287,343](#) T Threaded spinal implant with bone ingrowth openings
- 863 [6,287,339](#) T Sutureless heart valve prosthesis
- 864 [6,287,338](#) T Pre-stressing devices incorporating materials subject to stress softening
- 865 [6,287,303](#) T Ablation instrument for intracardiac treatments
- 866 [6,287,117](#) T Endosseous dental implants including a healing screw and an optional implant extender
- 867 [6,284,103](#) T Suction roll shell in a paper-making machine and method of manufacturing same
- 868 [6,284,097](#) T Method and apparatus to produce paper webs coated on both sides
- 869 [6,284,096](#) T Process for discharging impurities from a hydrocyclone and a hydrocyclone

T

- 870 [6,283,995](#) T Heart valve leaflet with scalloped free margin
- 871 [6,283,994](#) T Heart valve leaflet
- 872 [6,283,966](#) T Spinal surgery tools and positioning method
- 873 [6,279,749](#) T Process and apparatus for removing solids from an aqueous paper fiber suspension
- 874 [6,278,251](#) T Permanent magnetically excited electrical rotary drive
- 875 [6,277,390](#) T UHMW polyethylene for implants
- 876 [6,277,244](#) T Machine for manufacturing a material web
- 877 [6,277,243](#) T Method for mixing and recirculating stock suspensions and water flows in the wet end of a paper machine
- 878 [6,277,239](#) T Process for removing fine impurities from a fibrous suspension
- 879 [6,277,238](#) T Manufacture of sections of fiber-plastic compound materials
- 880 [6,277,197](#) T Apparatus for direct or indirect application of a liquid or pasty coating medium onto a traveling material web, notably of paper or cardboard
- 881 [6,274,260](#) T Plant with high temperature fuel cells I
- 882 [6,274,042](#) T Semipermeable membrane for pressing apparatus
- 883 [6,273,266](#) T Process for the wet screening of stock suspensions in pressure graders and pressure graders screen
- 884 [6,270,629](#) T Web handling apparatus
- 885 [6,270,527](#) T Elastic valve with partially exposed stent
- 886 [6,268,675](#) T Magnetically journaled electrical drive
- 887 [6,267,847](#) T Pulper for a stock preparation system
- 888 [6,267,846](#) T Twin wire former and method of manufacturing a fibrous material web from a fibrous suspension using same
- 889 [6,267,380](#) T Choke arrangement and a method for operating said choke arrangement
- 890 [6,267,025](#) T Broken pedicle screw extractor
- 891 [6,265,331](#) T Wire-screening fabric, methods of using the same, and papermaking machines comprising such fabrics
- 892 [6,264,794](#) T Process for manufacturing glazed paper
- 893 [6,264,662](#) T Insertion aid for a bifurcated prosthesis
- 894 [6,261,418](#) T Headbox with flexible support plates
- 895 [6,261,416](#) T Device and method for draining a web
- 896 [6,261,410](#) T Process for separating compressed material containing paper fibers
- 897 [6,260,789](#) T Multi-carrying-roll winder
- 898 [6,258,474](#) T Fuel cell module with an integrated additional heater
- 899 [6,258,249](#) T Sterilization of surgical sites
- 900 [6,258,212](#) T Device and process for application of a medium onto a material web

[Prev. List](#)[Next List](#)[Top](#)[View Cart](#)[Home](#)[Quick](#)[Advanced](#)[Pat Num](#)[Help](#)

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Hits **901 through 950 out of 2889**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 901 [6,257,964](#) T Roll grinding system for a roll
- 902 [6,254,729](#) T Pulper with extraction plate assembly having removable inserts and method of manufacturing same
- 903 [6,254,728](#) T Method and machine for manufacturing a fibrous pulp web
- 904 [6,254,727](#) T Two-wire former and method for operating the same
- 905 [6,254,726](#) T Process and apparatus for detecting moisture content in a supported fibrous web
- 906 [6,254,704](#) T Method for preparing a thermal spray powder of chromium carbide and nickel chromium
- 907 [6,254,640](#) T Shaft prosthesis and set
- 908 [6,253,983](#) T Vacuum conveyor
- 909 [6,253,797](#) T Terry fabric with relief effect and method for its manufacture
- 910 [6,253,671](#) T Process for glazing a material web and roller for a glazing calender
- 911 [6,251,579](#) T Oxidative stabilization of collagen containing materials
- 912 [6,251,526](#) T Coated cast part
- 913 [6,251,225](#) T Process for regulating the breaking length ratio of a manufactured paper web
- 914 [6,250,922](#) T Two-piece dental abutment with removable cuff
- 915 [6,250,611](#) T Vapor-liquid contact apparatus
- 916 [6,250,582](#) T Roll winding device and method
- 917 [6,250,581](#) T Web winding device and method
- 918 [6,250,580](#) T Method and apparatus for continuous winding of a web of material
- 919 [6,250,573](#) T Process and device for the dispersion of a fibrous paper material
- 920 [6,250,376](#) T Heat exchanging roll

- 921 [6,249,067](#) T Method and sensor arrangement for the determination of the radial position of a permanent magnetic rotor

922 [6,248,407](#) T Method for applying a coating medium onto a moving surface

923 [6,248,215](#) T Calender and method for treating material webs in the calender

924 [6,248,214](#) T Headbox

925 [6,248,203](#) T Fiber web lamination and coating apparatus having pressurized chamber

926 [6,248,174](#) T Paint curtain applicator

927 [6,247,933](#) T Dental implant delivery system

928 [6,247,398](#) T Calender arrangement for manufacturing a paper web

929 [6,244,961](#) T Arrangement for the control of a rotational shaft coupling for a dobby and a rotational shaft coupling with an arrangement of this kind

930 [6,244,867](#) T Multi-part, multi-positionable abutment for use with dental implants

931 [6,244,171](#) T Elastic coating for a calender roll, calender and process for operating the calender, and calender roll and method of forming the calender roll

932 [6,242,247](#) T Method for making cartilage and implants

933 [6,241,765](#) T Stapled heart prosthesis and method of installing same

934 [6,238,522](#) T Method and apparatus for measuring sheet thickness in a paper-making machine

935 [6,238,399](#) T Filling transfer apparatus for bone cement

936 [6,237,248](#) T Convection drier and method of use for manufacturing a material web

937 [6,236,130](#) T Method and arrangement for the excitation of the journalling winding and the drive winding systems in electrical machines with magnetic journalling, and an electrical drive

938 [6,235,160](#) T Machine and process for producing a fiber material web

939 [6,235,158](#) T Suction forming roll n double screen method and machine for the manufacture of a fibrous material web

940 [6,234,075](#) T Calender roll system

941 [6,232,009](#) T Electrochemically active element for a high temperature fuel cell

942 [6,230,998](#) T Method for transferring a web of material from a wound roll onto a winding tube, and winding apparatus

943 [6,230,760](#) T Linear motor weft presenting apparatus

944 [6,230,615](#) T Calender and process for treatment of paper web

945 [6,228,522](#) T Perowskite for a coating of interconnectors

946 [6,228,222](#) T Press arrangement and method thereof

947 [6,228,221](#) T Dewatering press and process

948 [6,228,009](#) T Deflection compensating roll and method of use thereof

949 [6,227,545](#) T Heatable and/or coolable cylinder

950 [6,227,374](#) T Process and floatation device for the removal of interfering materials from an aqueous fiber pulp suspension

USPTO PATENT FULL-TEXT AND IMAGE DATABASE

[Home](#)

Quick

Advanced

Pat Num

Help

Prev. List

[Next List](#)

Bottom

[View Cart](#)

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Results of Search in US Patent Collection db for:

AN/Sulzer: 2889 patents.

Hits 951 through 1000 out of 2889

Prev. 50 Hits

Next 50 Hits

Jump To

PAT.
NO.

Title

- 951 [6,227,105](#) T Calender for a web, in particular a paper web, process for forming the calender, and process for treating the web with the calender

952 [6,224,715](#) T Device and method for handling a material web

953 [6,224,631](#) T Intervertebral implant with reduced contact area and method

954 [6,223,778](#) T Apparatus for the insertion of weft threads for a series shed weaving machine

955 [6,222,290](#) T Sensor arrangement in an electromagnetic rotary drive and a method for the operation of a rotary drive of this kind

956 [6,221,215](#) T Suction device and process for conditioning and/or drainage of an endless felt

957 [6,221,214](#) T Wet press and method for treating a fibrous material web

958 [6,221,175](#) T Method for the production of a ceramic layer on a metallic base material

959 [6,220,832](#) T Centrifugal pump and centrifugal pump system

960 [6,217,611](#) T Modular heart valve prothesis

961 [6,217,298](#) T Electrodynamic transmission and a centrifugal pump with a transmission of this kind

962 [6,216,976](#) T Reel winding device and process

963 [6,214,170](#) T Process for cleaning or maintaining the cleanliness of the low-consistency branch of a headbox system

964 [6,214,169](#) T Sheet formation system with deckle plates and method for reducing edge waves

965 [6,214,167](#) T Twin-wire former and process for separating upper and lower wires of HTE twin-wire former

966 [6,214,112](#) T Device for direct or indirect single or double sided application of a liquid or viscous coating medium onto a moving surface

967 [6,214,052](#) T Tibial component with a reversible, adjustable stem

- 968 [6,213,161](#) T Holder apparatus for weft thread in a series shed weaving machine

969 [6,211,157](#) T Protein mixtures to induce therapeutic angiogenesis

970 [6,210,534](#) T Trim squirt for a paper-making machine

971 [6,210,533](#) T Revolver valve for discharging a pressurized vessel in a fiber stock preparation system

972 [6,210,530](#) T Press section and method for pressing with different shoe press lengths

973 [6,210,437](#) T Chemical method to bond silicone to metal

974 [6,209,817](#) T Method and apparatus for monitoring a winding hardness of a winding roll

975 [6,209,451](#) T Roll, calender, and process for operating a roll

976 [6,208,953](#) T Method for monitoring plants with mechanical components

977 [6,207,018](#) T Process for controlling headbox with pulp consistency control

978 [6,207,017](#) T Process and device for determining the effect of adjustment of final control elements

979 [6,206,918](#) T Heart valve prosthesis having a pivot design for improving flow characteristics

980 [6,206,696](#) T Driver tool for one step implant delivery system

981 [6,206,349](#) T Fluid-fluid contacting apparatus

982 [6,206,321](#) T Reel cutter for a material web and method of using the same

983 [6,204,487](#) T Method and device for a paper calender

984 [6,203,858](#) T Method and system for coating a web

985 [6,203,665](#) T Process for setting a uniform characteristic cross-direction profile for a paper web

986 [6,203,615](#) T Doctoring device

987 [6,203,575](#) T Modular system for shaft prostheses

988 [6,203,480](#) T Pressure processing roll

989 [6,203,188](#) T Module forming part of a static mixer arrangement for a plastically flowable material to be mixed having a critical dwell time

990 [6,202,557](#) T Applicator system roll

991 [6,200,426](#) T Paper machine with a controllable electro-magnetic clutch

992 [6,200,417](#) T Process and device for mixing stock suspensions

993 [6,200,346](#) T Metal implant with anchoring surface

994 [6,200,341](#) T Mechanical heart valve assembly with super-elastic lock wire

995 [6,200,340](#) T Tilting disk heart valve having cavitation reducing contact geometry

996 [6,200,306](#) T Bend clip for flexible rotator

997 [6,200,204](#) T Roll grinder with vibration dampening

998 [6,199,790](#) T Reel winding device and process for supporting a winding reel

999 [6,199,696](#) T Shock resistant packaging for a prosthetic heart valve

1000 [6,199,476](#) T Roll machine and process for operating the same

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

[Next List](#)

[Top](#)

[View Cart](#)

Home

Quick

Advanced

Pat Num

Help

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Hits 1001 through 1050 out of 2889[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 1001 [6,199,278](#) [Method and apparatus of inserting occluder\(s\) in heart valve prostheses](#)
- 1002 [6,197,161](#) [Profile bar assembly for a headbox in a paper-making machine](#)
- 1003 [6,197,159](#) [Paper making machine and method for web transfer](#)
- 1004 [6,197,158](#) [Drying screen and process for using the same](#)
- 1005 [6,197,157](#) [Process for draining or smoothing a fibrous pulp web](#)
- 1006 [6,197,112](#) [Support beam in a paper machine](#)
- 1007 [6,197,054](#) [Sutureless cuff for heart valves](#)
- 1008 [6,196,492](#) [Roll winder and process of operating same](#)
- 1009 [6,196,069](#) [Spherical shoe proof test](#)
- 1010 [6,194,084](#) [Thermal spray powder of dicalcium silicate and coating thereof and manufacture thereof](#)
- 1011 [6,193,845](#) [Blow pipe tail threading system for paper-making machines](#)
- 1012 [6,193,756](#) [Tubular support body for bridging two vertebrae](#)
- 1013 [6,193,722](#) [Hollow milling tool](#)
- 1014 [6,193,713](#) [Method for the operation of a high frequency ablation apparatus and apparatus for the high frequency tissue ablation](#)
- 1015 [6,193,639](#) [Deflection compensation roll](#)
- 1016 [6,193,516](#) [Dental implant having a force distribution shell to reduce stress shielding](#)
- 1017 [6,192,597](#) [Device for treating a fibrous pulp web as well as a sealing device for a device of this kind](#)
- 1018 [6,190,506](#) [Paper making apparatus having pressurized chamber](#)
- 1019 [6,190,505](#) [Apparatus and method for moistening a material web](#)
- 1020 [6,189,576](#) [Apparatus for the controlled moving of a warp thread](#)

- 1021 6,189,566 T Liquid distributor for column packings

1022 6,189,237 T Process for drying a web

1023 6,189,233 T Dryer section

1024 6,188,149 T Linear motor for a textile machine as well as an apparatus with a linear motor and a weaving machine with an apparatus

1025 6,187,142 T Process and device for acting on a paper or cardboard web with one of a fluid and pasty coating medium

1026 6,187,038 T Small bore biologic graft with therapeutic delivery system

1027 6,186,184 T Heald loom and a method for regulating a heald loom

1028 6,185,909 T Method for packaging a material web roll

1029 6,183,595 T Process for treating a fibrous material suspension using combination of low-intensity and high-intensity flotation

1030 6,183,516 T Method for improved bonding of prosthetic devices to bone

1031 6,183,475 T Distal femoral osteotomy system and method

1032 6,182,564 T Apparatus and process for the smoothing of a material web

1033 6,181,040 T Magnetically journaled rotational arrangement

1034 6,179,964 T Method and control device for paper web profile control with plurality of sensors

1035 6,179,963 T Process for influencing the breaking length cross-machine profile of a running fibrous material web

1036 6,179,842 T Blocking system for the medullary canal of a tubular bone

1037 6,179,553 T Multiple stage centrifugal pump

1038 6,179,011 T Apparatus for the insertion of weft threads for a series shed weaving machine and a series shed weaving machine with an apparatus

1039 6,178,661 T Steam blower box

1040 6,177,514 T Blocked functional reagents for cross-linking biological tissues

1041 6,176,939 T Cleaning device and process

1042 6,176,449 T Process and device for winding partial webs into partial web rolls

1043 6,174,567 T Coating medium applicator with guide surface

1044 6,174,413 T Device for detecting and correcting a fiber orientation cross direction profile change

1045 6,174,368 T Stationary sliding bar

1046 6,174,331 T Heart valve leaflet with reinforced free margin

1047 6,173,831 T Endless belt

1048 6,173,636 T Traveling fiber material web cutoff apparatus

1049 6,171,653 T Apparatus for applying a liquid or viscid coating medium onto a moving fiber material web

1050 6,171,642 T Method and apparatus for detecting and correcting an operating parameter during fiber web coating

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

Next List

Top

[View Cart](#)

Home

Quick

Advanced

Pat Num

Help

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[Home](#)

Quick

Advanced

Pat Num

Help

Prev. List

[Next List](#)

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[View Cart](#)

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AN/Sulzer: 2889 patents.

Hits 1051 through 1100 out of 2889

Prev. 50 Hits

Next 50 Hits

Jump To

[Refine Search](#)

AN/Sulzer

PAT. NO.

Title

- 1051 [6,171,339](#) T [Multi-lumen spinal implant guide and method](#)

1052 [6,171,078](#) T [Centrifugal pump](#)

1053 [6,170,805](#) T [Collars within a ring gap of a material exchange having a packing](#)

1054 [6,165,370](#) T [Pressure screen monitoring apparatus and method](#)

1055 [6,165,219](#) T [Lordotic spinal implant](#)

1056 [6,165,218](#) T [Intervertebral prosthesis](#)

1057 [6,164,458](#) T [Method for the separation of a first liquid from a second one](#)

1058 [6,164,342](#) T [Method and apparatus for adjustable weft thread insertion in rapier weaving machine](#)

1059 [D435,260](#) T [Facade for a paper-making machine](#)

1060 [6,162,331](#) T [Apparatus and process for controlling or regulating a web property profile](#)

1061 [6,162,326](#) T [Process for draining a fibrous pulp suspension](#)

1062 [6,161,792](#) T [Winding device including a support device and winding process](#)

1063 [6,161,730](#) T [Apparatus for carrying out a mixing dispensing of a plurality of flowable components](#)

1064 [6,161,303](#) T [Pressing apparatus having chamber end sealing](#)

1065 [6,159,341](#) T [Wire part for forming a multi-ply fiber web](#)

1066 [6,159,289](#) T [Doctoring device for an apparatus to apply a liquid or viscid medium onto a moving base surface](#)

1067 [6,159,216](#) T [Combination tibial preparation instrumentation](#)

1068 [6,157,859](#) T [Upgradable implantable medical device with post-shock pacing and redraw functions](#)

1069 [6,156,531](#) T [Cross-linking tissue with a compound having a C.sub.8 to C.sub.40 aliphatic chain](#)

1070 [6,156,158](#) T [Method and apparatus for damping contact oscillations of rotating rolls](#)

1071 [6,156,040](#) T [Apparatus and method for spinal stablization](#)

- 1072 [6,155,979](#) T Ultrasonic measurement apparatus, system and use of the same

1073 [6,155,309](#) T Settable web clamping and severing apparatus

1074 [RE36,969](#) T Static mixing element having deflectors and a mixing device

1075 [6,153,056](#) T Device and method for draining a paper machine felt

1076 [6,151,931](#) T Effluent shower for pulp washer

1077 [6,149,771](#) T Method for manufacturing a press jacket and a press jacket made in accordance with this method

1078 [6,149,726](#) T Floating doctoring apparatus

1079 [6,149,687](#) T Offset trial stem

1080 [6,149,686](#) T Threaded spinal implant with bone ingrowth openings

1081 [6,149,400](#) T Method and apparatus for a suction valve of the plate-type construction

1082 [6,149,099](#) T Winding device for the winding-up of a paper web

1083 [6,149,098](#) T Process to spool a longitudinally cut material sheet and a device to execute the process

1084 [6,148,538](#) T Condensation device and suction element including a condensation device

1085 [6,146,690](#) T Coating device and coating method

1086 [6,146,424](#) T Offset press-fit tibial stem

1087 [6,146,383](#) T Pivotal securing system at a bone screw

1088 [6,145,340](#) T Process for fractional crystallization of substances, a crystallizer suitable for working the process, and use of the process

1089 [6,145,218](#) T Drying section and method for drying a material web in such a drying section

1090 [6,145,217](#) T Machine for manufacturing a material web

1091 [6,145,127](#) T Calender and method of operating same

1092 [6,143,133](#) T Method and device for drainage of a fibrous suspension

1093 [6,143,092](#) T Process for cleaning a transport belt

1094 [6,143,034](#) T Implantable hinged knee prosthesis having tibial baseplate

1095 [6,143,024](#) T Annuloplasty ring having flexible anterior portion

1096 [6,139,690](#) T Former with a floating upper lip

1097 [6,137,078](#) T Nozzle for use in a torch head of a plasma torch apparatus

1098 [6,136,154](#) T Press section

1099 [6,136,152](#) T Process and device for controlling the consistency and fiber orientation profile in a headbox

1100 [6,136,017](#) T One handed instrument for spreading a heart valve

Prev. List

[Next List](#)

Top

[View Cart](#)

Home

Quick

Advanced

Part Number

Help

USPTO PATENT FULL-TEXT AND IMAGE DATABASE

[Home](#)

Quick

Advanced

Pat Num

[Help](#)

[Prev. List](#)

[Next List](#)

Bottom

[View Cart](#)

Searching US Patent Collection...

Results of Search in US Patent Collection db for:

AN/Sulzer: 2889 patents.

Hits 1101 through 1150 out of 2889

Prev. 50 Hits

Next 50 Hits

Jump To

[Refine Search](#)

AN/Sulzer

PAT.
NO.

Title

- 1101 [6,135,267](#) T Device for cleaning a transport belt
 - 1102 [6,132,986](#) T Tissue crosslinking for bioprostheses using activated difunctional or polyfunctional acids
 - 1103 [6,132,807](#) T Method of directly or indirectly applying a liquid or pasty medium to a continuous material web so that said medium on said web has a predetermined transverse and/or longitudinal profile
 - 1104 [6,131,304](#) T Dryer section
 - 1105 [6,130,494](#) T Magnetic bearing apparatus and a method for operating the same
 - 1106 [6,129,765](#) T Locking mechanism for acetabular cup
 - 1107 [6,129,652](#) T Calendar roll with coolant conduits
 - 1108 [6,129,305](#) T Process and winding machine for continuous winding of a material web
 - 1109 [6,129,212](#) T Flotation process and mixing device
 - 1110 [6,129,011](#) T Calender for treating both sides of a web
 - 1111 [6,128,827](#) T Steam-heated roll and process
 - 1112 [6,127,596](#) T Implantable orthopedic prosthesis having tissue attachment surface and method of manufacture
 - 1113 [6,126,789](#) T Shoe press
 - 1114 [6,126,751](#) T Application unit for directly or indirectly applying a liquid or pasty medium to a continuous material web
 - 1115 [6,126,750](#) T Device used to indirectly apply a liquid or viscous medium onto a material web, specifically a paper or cardboard web
 - 1116 [6,126,695](#) T Artificial joint, particularly an artificial hip joint
 - 1117 [6,126,694](#) T Universal distal broach and stem trial

- 1118 [6,120,645](#) T [Process for operating a press section for forming a web](#)
1119 [6,120,546](#) T [Implantable prosthesis having spring-engaged hole plugs](#)
1120 [6,120,509](#) T [Intramedullary reference datum instrument](#)
1121 [6,120,506](#) T [Lordotic spinal implant](#)
1122 [6,117,272](#) T [Device and process for metering auxiliary materials into the flow box of a paper machine](#)
1123 [6,117,169](#) T [Living hinge attachment of leaflet to a valve body](#)
1124 [6,117,147](#) T [Device and method for reinforcing an anastomotic site](#)
1125 [6,117,138](#) T [Instruments for forming bony cavity for implantable femoral, hip prosthesis](#)
1126 [6,116,156](#) T [Machine for producing a continuous material web](#)
1127 [6,115,938](#) T [Machine for producing a material web](#)
1128 [6,113,991](#) T [Method for coating a carbon substrate or a non-metallic containing carbon](#)
1129 [6,113,602](#) T [Posterior spinal instrument guide and method](#)
1130 [6,112,776](#) T [Weft monitoring insertion system for a plurality of different weft threads](#)
1131 [6,110,178](#) T [Apparatus for the production of endochondral or osteochondral bores](#)
1132 [6,106,669](#) T [Process for thickening a fibrous pulp suspension](#)
1133 [6,106,619](#) T [Thermally compensated coater rod](#)
1134 [6,106,550](#) T [Implantable attaching ring](#)
1135 [6,106,447](#) T [Press jacket and roll with a press jacket of this kind](#)
1136 [6,105,897](#) T [Reel winding roll and process](#)
1137 [6,103,128](#) T [Method and apparatus for mixing gas with liquid](#)
1138 [6,102,951](#) T [Mounting system for metallic support shells](#)
1139 [6,102,945](#) T [Separable annuloplasty ring](#)
1140 [6,102,703](#) T [Self-tapping dental implant having a bio-reactive coating](#)
1141 [6,102,325](#) T [Reel slitting device and guide device](#)
1142 [6,102,084](#) T [Rapier clamp](#)
1143 [6,100,618](#) T [Rotary machine with an electromagnetic rotary drive](#)
1144 [6,099,692](#) T [Headbox turbulence generator](#)
1145 [6,099,656](#) T [Apparatus and process for the prevention and removal of obstructions in the outlet opening of a metering slot of a coating apparatus](#)
1146 [6,099,570](#) T [Knee joint prothesis](#)
1147 [6,099,311](#) T [Abutment delivery system](#)
1148 [6,098,670](#) T [Apparatus for tensioning warp threads for a weaving machine and a weaving machine with an apparatus of this kind](#)
1149 [6,098,309](#) T [Machine and process for manufacturing or treating a material web](#)
1150 [6,096,082](#) T [Modular instrument system for knee joint prostheses](#)

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

Next List

Top

[View Cart](#)

[Home](#)

Quick

Advanced

Pat Num

[Help](#)

USPTO PATENT FULL-TEXT AND IMAGE DATABASE[Home](#)[Quick](#)[Advanced](#)[Pat Num](#)[Help](#)[Prev. List](#)[Next List](#)[Bottom](#)[View Cart](#)

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Results of Search in US Patent Collection db for:

AN/Sulzer: 2889 patents.

Hits **1151** through **1200** out of **2889**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 1151 [6,095,817](#) [Dental implant having multiple textured surfaces](#)
- 1152 [6,095,442](#) [Perforated drum in a stock preparation system for screening foreign matter from recycled paper](#)
- 1153 [6,095,237](#) [Roll arrangement and method for cooling a roll](#)
- 1154 [6,093,530](#) [Non-calcific biomaterial by glutaraldehyde followed by oxidative fixation](#)
- 1155 [6,093,248](#) [Apparatus for applying a liquid or pasty medium onto a traveling material web](#)
- 1156 [6,093,184](#) [Flexible valve rotator](#)
- 1157 [6,092,561](#) [Thread clamp for a weaving machine and a weaving machine with a thread clamp of this kind](#)
- 1158 [6,091,042](#) [Arc thermal spray gun extension and gas jet member therefor](#)
- 1159 [6,090,244](#) [Press section](#)
- 1160 [6,090,138](#) [Universal heart valve holder](#)
- 1161 [6,089,495](#) [Winding device and method for a reel cutter](#)
- 1162 [6,088,926](#) [Dryer section](#)
- 1163 [6,086,954](#) [Method and apparatus for application of coating medium onto a traveling material web having a splice](#)
- 1164 [6,086,614](#) [Orthopedic prosthesis having anti-backout screw](#)
- 1165 [6,086,595](#) [Apparatus and method for spinal stabilization](#)
- 1166 [6,086,371](#) [Dental implant delivery system having driver mount with removable flange](#)
- 1167 [6,086,010](#) [Process for transferring a material web from a winding roll to a winding sleeve and winding device](#)
- 1168 [D427,683](#) [Dental abutment](#)

- 1169 [6,083,351](#) T Dilution control device for a wet end of a paper-making machine

1170 [6,083,350](#) T System for treatment of waste paper having a pulping drum and a perforated sorting area

1171 [6,083,349](#) T Machine and method for manufacturing a creped fibrous pulp web, with a shoe pre-press and a main shoe press

1172 [6,082,549](#) T Process and facility to remove solid matter from an aqueous fibrous material suspension

1173 [6,080,159](#) T Ascending centromedullary thigh bone pin with mechanical clamping of its two ends

1174 [6,077,395](#) T Head box of paper machine

1175 [6,076,742](#) T Arc thermal spray gun extension with conical spray

1176 [6,076,660](#) T Vial for dental implant delivery system

1177 [6,076,280](#) T Method and device for drying a fiber web

1178 [6,076,014](#) T Cardiac stimulator and defibrillator with means for identifying cardiac rhythm disorder and chamber of origin

1179 [6,074,548](#) T Process for obtaining paraffin or paraffin fractions

1180 [6,074,424](#) T Implantable knee joint prosthesis convertible from primary to revision

1181 [6,073,865](#) T Process and devices for manufacturing a hot friable material

1182 [6,073,548](#) T Roll machine, roll, and process of forming roll machine

1183 [6,073,049](#) T Programmably upgradable implantable cardiac pacemaker

1184 [6,071,550](#) T Method of maintaining an angle between a doctor blade and an opposing surface at a predetermined value

1185 [6,071,324](#) T Powder of chromium carbide and nickel chromium

1186 [6,070,620](#) T Sliding bar temple for a power loom

1187 [6,068,736](#) T Slice lip clamp assembly for a slice lip of a headbox

1188 [6,068,582](#) T Roll shell support

1189 [6,068,201](#) T Apparatus for moving a thermal spray gun in a figure eight over a substrate

1190 [6,066,136](#) T Ablation catheter with a plurality of poles

1191 [6,065,503](#) T Apparatus for changing the beat-up position of a reed

1192 [6,065,396](#) T Press device

1193 [6,065,345](#) T Method for monitoring the condition of a mechanical seal

1194 [6,063,450](#) T Method and apparatus for directly or indirectly applying a liquid pasty application medium to one or both sides of a continuous surface

1195 [6,063,241](#) T Headbox with pulp consistency control

1196 [6,063,193](#) T Applicator for direct or indirect application of a liquid or pasty medium onto a traveling fiber material web

1197 [6,063,192](#) T Method and apparatus for wet-in-wet coating of a moving layer of material

1198 [6,063,123](#) T Acetabular insert extractor and method for use

1199 [6,060,110](#) T Process and apparatus for adjustment of an elongated component part which extends across the width of a moving material web

1200 [6,059,929](#) T Three-layer headbox

USPTO PATENT FULL-TEXT AND IMAGE DATABASE

[Home](#)

Quick

Advanced

Pat Num

[Help](#)

Prev. List

[Next List](#)

Bottom

[View Cart](#)

Searching US Patent Collection...

Results of Search in US Patent Collection db for:

AN/Sulzer: 2889 patents.

Hits 1201 through 1250 out of 2889

Prev. 50 Hits

Next 50 Hits

Jump To

AN/Sulzer

PAT.
NO.

Title

- 1201 [6,059,790](#)  [Apparatus and method for spinal stabilization](#)
 - 1202 [6,059,219](#)  [Winding device and process for winding material webs](#)
 - 1203 [6,058,981](#)  [Cloth take-up apparatus for a weaving machine and a weaving machine with a cloth take-up apparatus](#)
 - 1204 [6,056,856](#)  [Blower for an air/water separator in a paper-making machine](#)
 - 1205 [6,056,126](#)  [Screen device with slot-shaped openings](#)
 - 1206 [6,053,986](#)  [Cleaning device and process](#)
 - 1207 [6,053,979](#)  [Apparatus for direct or indirect application of a liquid or pasty coating medium onto a traveling material web, notably of paper or cardboard](#)
 - 1208 [6,053,978](#)  [Applicator for direct or indirect application of a liquid or pasty coating medium onto a traveling material web](#)
 - 1209 [6,053,868](#)  [Apparatus for a cardiological therapy](#)
 - 1210 [6,053,705](#)  [Rotary pump and process to operate it](#)
 - 1211 [6,051,076](#)  [Device for cleaning a transport belt](#)
 - 1212 [6,051,068](#)  [System for selective treatment of a traveling paper web](#)
 - 1213 [6,050,392](#)  [Cleaning device and process](#)
 - 1214 [6,048,365](#)  [Implantable orthopedic prosthesis having keyed taper connector](#)
 - 1215 [6,047,834](#)  [Process for the manufacture of a sifting device with slit-shaped openings and an appropriately manufactured sifting device](#)
 - 1216 [6,045,583](#)  [Twin-shelled artificial hip joint and its manufacture](#)
 - 1217 [6,045,582](#)  [Implantable humeral shoulder prosthesis having extended articular surface](#)
 - 1218 [6,045,581](#)  [Implantable prosthesis having textured bearing surfaces](#)

- 1219 [6,045,135](#) T [Sealing ring disk](#)

1220 [6,044,619](#) T [Reel slitting device and method](#)

1221 [6,043,580](#) T [Rotodynamic machine for the forwarding of a fluid](#)

1222 [6,042,956](#) T [Method for the simultaneous generation of electrical energy and heat for heating purposes](#)

1223 [6,042,735](#) T [Process and device to drain a fibrous pulp suspension](#)

1224 [6,042,090](#) T [Distributor device for a column](#)

1225 [6,042,019](#) T [Thermal spray gun with inner passage liner and component for such gun](#)

1226 [6,041,830](#) T [Displaceable warp beam support bearing for warp beams arranged one above the other](#)

1227 [6,036,820](#) T [Shoe press unit](#)

1228 [6,036,029](#) T [Device to drain a fibrous pulp suspension](#)

1229 [6,033,477](#) T [Apparatus for joining at least one actuator to at least one oblong working unit of a coating system, allowing translatory and/or rotary adjustment](#)

1230 [6,033,419](#) T [Apparatus and method for cutting a heart valve annulus](#)

1231 [6,030,503](#) T [Press sleeve for a press device](#)

1232 [6,030,502](#) T [Press arrangement](#)

1233 [6,030,334](#) T [Method and apparatus for treating and preventing arteriosclerosis](#)

1234 [6,029,927](#) T [Reeling machine and a process to reel a web](#)

1235 [6,029,570](#) T [Press jacket for a press device](#)

1236 [6,029,365](#) T [Machine for producing a sheet](#)

1237 [6,027,613](#) T [Suction device with release mechanism for a fabric web section of a paper machine](#)

1238 [6,027,505](#) T [Instrument for the introduction of an inlay of an implant into the associated shell](#)

1239 [6,024,838](#) T [Calender for paper and the like](#)

1240 [6,024,836](#) T [Process and device for production of a pulp web](#)

1241 [6,024,793](#) T [Method and device for separating a substance from a liquid mixture by fractional crystallization](#)

1242 [6,024,792](#) T [Method for producing monocrystalline structures](#)

1243 [6,022,591](#) T [Method and apparatus for the application of a coating of a liquid or pasty medium onto a moving layer of material, especially paper or cardboard](#)

1244 [6,022,377](#) T [Instrument for evaluating balance of knee joint](#)

1245 [6,021,581](#) T [Method of drying a paper web in a paper-making machine at speeds greater than 6000 feet per minute](#)

1246 [6,019,846](#) T [Coater rod bed](#)

1247 [6,019,306](#) T [Roll winding device](#)

1248 [6,017,421](#) T [Headbox with baffle](#)

1249 [6,017,419](#) T [Method and assembly for storing, transporting and using a metering size press rod assembly in a paper-making machine](#)

1250 [6,017,349](#) T [Transport and processing apparatus for a two-component material](#)

[Prev. List](#)

[Next List](#)

Top

[View Cart](#)

[Home](#)

Quick

Advanced

Pat Num

Help

USPTO PATENT FULL-TEXT AND IMAGE DATABASE[Home](#)[Quick](#)[Advanced](#)[Pat Num](#)[Help](#)[Prev. List](#)[Next List](#)[Bottom](#)[View Cart](#)

Searching US Patent Collection...

Results of Search in US Patent Collection db for:

AN/Sulzer: 2889 patents.

Hits 1251 through 1300 out of 2889

[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 1251 [6,016,987](#) Winding device for a material web, especially for a reel slitting device
- 1252 [6,013,081](#) Apparatus and method for anterior and posterior referenced sizing and distal femur resection
- 1253 [6,012,923](#) Two-piece dental abutment with removable cuff
- 1254 [6,012,673](#) Winding device and method
- 1255 [6,012,234](#) Device for drying a continuous web
- 1256 [6,010,739](#) Method and apparatus for direct or indirect application of a liquid or pasty medium onto a traveling material web
- 1257 [6,010,597](#) Three-layer headbox
- 1258 [6,010,128](#) Device for guiding a paper sheet on a belt
- 1259 [6,010,078](#) Distributing apparatus with tubular manifold for an applicator
- 1260 [6,009,915](#) Method and distribution apparatus for pneumatic weft insertion in a series shed loom
- 1261 [6,007,537](#) Nested cutting block
- 1262 [6,007,014](#) Winding machine
- 1263 [6,004,429](#) Machine and method for producing a fibrous creped web
- 1264 [6,004,394](#) Apparatus for direct or indirect application of a liquid or pasty coating medium onto a traveling material web, notably of paper or cardboard
- 1265 [6,004,352](#) Tibia platform for an artificial knee joint
- 1266 [6,003,750](#) Process for guiding a web
- 1267 [6,001,179](#) Coating medium applicator with guide surface
- 1268 [6,000,640](#) Process and device for the decomposition of fibrous materials
- 1269 [6,000,143](#) Machine to manufacture a material a sheet, in particular paper or cardboard sheet
-

- 1270 [5,999,835](#) [Connection element for an outer end piece of a surgical electrode](#)

1271 [5,998,053](#) [Method for operating an apparatus with fuel cells](#)

1272 [5,997,694](#) [Press arrangement with lever arm to move press shoe](#)

1273 [5,997,646](#) [Apparatus for direct or indirect application of a liquid or pasty coating medium onto a traveling material web, notably of paper or cardboard](#)

1274 [5,997,536](#) [Heart catheter with an electrode on a spreadable device](#)

1275 [5,997,248](#) [Silicon carbide composition for turbine blade tips](#)

1276 [5,996,604](#) [Apparatus and method for providing process water used for making or processing a fiber suspension](#)

1277 [5,993,606](#) [Headbox of a paper machine which reduces effective width of liquid feed](#)

1278 [5,993,548](#) [Fiber web processing machine having a spreading device with a support beam](#)

1279 [5,992,279](#) [Slitting device to slit a material web](#)

1280 [5,991,665](#) [Self-cooling transcutaneous energy transfer system for battery powered implantable device](#)

1281 [5,989,027](#) [Dental implant having multiple textured surfaces](#)

1282 [5,988,560](#) [Roll winding device and process](#)

1283 [5,988,557](#) [Method and apparatus for the winding up of a paper web to form a roll](#)

1284 [5,988,055](#) [Calendar for paper and similar web material](#)

1285 [5,987,777](#) [Dry end](#)

1286 [5,985,098](#) [Continuously variable sectioned headbox](#)

1287 [5,983,606](#) [Device and method for packaging a web roll with a packaging sheet](#)

1288 [5,980,570](#) [System and method for implanting an expandable medical device into a body](#)

1289 [5,980,438](#) [Adjustable deflection roll](#)

1290 [5,979,641](#) [Paper roll guide](#)

1291 [5,978,710](#) [Implantable cardiac stimulator with safe noise mode](#)

1292 [5,974,768](#) [Device for packaging a material web roll with a packaging sheet](#)

1293 [5,974,684](#) [Suction device](#)

1294 [5,972,170](#) [Suction box](#)

1295 [5,972,168](#) [Twin wire former](#)

1296 [5,972,032](#) [Acetabular shell having flared rim and fixation spikes](#)

1297 [5,968,357](#) [Screen basket having a removable and replaceable cylindrical mesh liner](#)

1298 [5,968,319](#) [Dual external suction boxes for suction roll for a paper machine](#)

1299 [5,968,269](#) [Coater with multi-part and multi-use profile bar assembly](#)

1300 [5,967,449](#) [Winder and method for the continuous winding of a material web](#)

[Prev. List](#)

[Next List](#)

Top

[View Cart](#)

[Home](#)

Quick

Advanced

Pat Num

Help

USPTO PATENT FULL-TEXT AND IMAGE DATABASE[Home](#)[Quick](#)[Advanced](#)[Pat Num](#)[Help](#)[Prev. List](#)[Next List](#)[Bottom](#)[View Cart](#)*Searching US Patent Collection...***Results of Search in US Patent Collection db for:**

AN/Sulzer: 2889 patents.

Hits 1301 through 1350 out of 2889[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)

[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 1301 [5,967,447](#) Continuously operating reel cutter with a winding section
- 1302 [5,967,035](#) Applicator system roll
- 1303 [5,966,904](#) Device and method for packaging a material web roll
- 1304 [5,966,834](#) Machine and method for producing a material web
- 1305 [5,965,006](#) Method for producing a metal surface
- 1306 [5,964,986](#) Distillation plant
- 1307 [5,964,960](#) Cleaning device
- 1308 [5,964,956](#) Process for cleaning a transport belt
- 1309 [5,964,754](#) Device for perforating the heart wall
- 1310 [5,964,528](#) Method of operating a mass exchange column, a heat exchange column or a static mixer using a packing composed of flat structural elements
- 1311 [5,964,405](#) Arc thermal spray gun and gas cap therefor
- 1312 [5,963,429](#) Printed circuit substrate with cavities for encapsulating integrated circuits
- 1313 [5,961,785](#) Machine for manufacturing a continuous material web
- 1314 [5,961,330](#) Vial for dental implant delivery system
- 1315 [5,958,522](#) High speed thermal spray coating method using copper-based lead bronze alloy and aluminum
- 1316 [5,958,513](#) Apparatus and method for direct or indirect application of a liquid or pasty medium onto a traveling material web, notably of paper or cardboard
- 1317 [5,958,189](#) Wet part of a paper making machine
- 1318 [5,958,183](#) River water heat exchanger for cooling process liquid in a paper-making machine

- 1319 [5,958,179](#) **T** Process for increasing pulp whiteness by bleaching printed wastepaper under intense dispersing mechanical treatment

1320 [5,956,864](#) **T** Dryer section with a pressing device

1321 [5,954,753](#) **T** Implantable defibrillator with improved testing of capability to defibrillate

1322 [5,954,728](#) **T** Filling apparatus for bone cement

1323 [5,954,709](#) **T** Low profile introducer and rotator

1324 [5,954,291](#) **T** Winding device for taking up a paper web

1325 [5,951,242](#) **T** Paper machine having a high pressure fluid slitter with overflow compensation

1326 [5,950,685](#) **T** Monolithic shed holding component for series shed weaving rotor

1327 [5,950,684](#) **T** Removal of a weft thread in a series shed weaving machine

1328 [5,948,477](#) **T** Coating apparatus and method to directly or indirectly apply a liquid or pasty medium onto a moving layer of material

1329 [5,947,971](#) **T** Spinal stabilization surgical apparatus

1330 [5,947,735](#) **T** Surface roughening of self-tapping dental implants

1331 [5,947,163](#) **T** Series shed weaving rotor with staggered beat-up lamella

1332 [5,947,162](#) **T** Series shed weaving machine with a weaving rotor

1333 [5,947,017](#) **T** Calender having an end roll associated with a supplementary roll

1334 [5,944,901](#) **T** Indirect plasmatron

1335 [5,944,898](#) **T** Apparatus for successive application of two coats of liquid or pasty medium on one side of a traveling web of material

1336 [5,944,744](#) **T** Implantable cardiac stimulator with automatic electrogram profiling

1337 [5,944,419](#) **T** Mixing device

1338 [5,943,951](#) **T** Press roll for treating a material shaped in the form of a web

1339 [5,943,843](#) **T** Device and method for packaging a material web roll

1340 [5,941,904](#) **T** Electromagnetic acceleration transducer for implantable medical device

1341 [5,941,637](#) **T** Flow forming member that reduces the disadvantageous effects of thermal degradation in the boundary layers

1342 [5,941,288](#) **T** Shed holder element for the weaving rotor of a series shed weaving machine

1343 [5,940,981](#) **T** Machine for manufacturing a material sheet

1344 [5,939,813](#) **T** Gap tube motor

1345 [5,938,896](#) **T** Hydraulic increaser for a wet end of a paper-making machine

1346 [5,938,702](#) **T** Locking mechanism for acetabular cup

1347 [5,938,698](#) **T** Kit system for cemented prostheses

1348 [5,938,144](#) **T** Winding machine

1349 [5,937,913](#) **T** Weft thread distributor apparatus of a series shed weaving machine

1350 [5,935,458](#) **T** Wire thermal spray apparatus with dual motors

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

[Next List](#)

Top

[View Cart](#)

[Home](#)

Oujick

Advanced

Pat Num

Help

USPTO PATENT FULL-TEXT AND IMAGE DATABASE

[Home](#)

Quick

Advanced

Pat Num

Help

Prev. List

Next List

Bottom

[View Cart](#)

Searching US Patent Collection...

Results of Search in US Patent Collection db for:

AN/Sulzer: 2889 patents.

Hits 1351 through 1400 out of 2889

Prev. 50 Hits

Next 50 Hits

Jump To

AN/Sulzer

PAT.
NO.

Title

- 1351 [5,935,388](#) **T** Distillation plant with a heat pump
 - 1352 [5,935,385](#) **T** Press device with oil aspiration device
 - 1353 [5,935,174](#) **T** Acetabular shell having flexible dome hole diaphragm
 - 1354 [5,933,981](#) **T** Device and method for stabilizing a continuous paper web in a paper-making machine in the vicinity of a roll
 - 1355 [5,932,368](#) **T** High temperature fuel cell with a thin film electrolyte
 - 1356 [5,932,070](#) **T** Process and device for the removal of paper sheet remnants from a belt
 - 1357 [5,932,010](#) **T** Application unit for directly or indirectly applying a fluid or pasty medium to a continuous material web
 - 1358 [5,931,871](#) **T** Kit of parts for a modular femur head prosthesis, in particular, a reoperation prosthesis, and a femur head prosthesis from such a kit of parts
 - 1359 [5,931,406](#) **T** Method and winder for the continuous winding of a material web
 - 1360 [5,928,278](#) **T** Defibrillation electrode
 - 1361 [5,928,242](#) **T** Laparoscopic spinal stabilization method
 - 1362 [5,928,121](#) **T** Adjustable deflection roll
 - 1363 [5,926,971](#) **T** Machine for producing a material web
 - 1364 [5,925,220](#) **T** Suction roll of a paper machine having a noise damping chamber
 - 1365 [5,925,219](#) **T** Shoe press with stop
 - 1366 [5,925,069](#) **T** Method for preparing a high definition window in a conformally coated medical device
 - 1367 [5,922,407](#) **T** Method and an apparatus for the application of a liquid or pasty medium onto a moving material web
 - 1368 [5,922,129](#) **T** Multipart doctor bar

- 1369 [5,919,235](#) T [Intervertebral prosthesis](#)

1370 [5,917,297](#) T [Arrangement and method for operating a magnetically suspended, electromotoric drive apparatus in the event of a mains disturbance](#)

1371 [5,916,446](#) T [Process and apparatus for the separation of solid matter via flotation](#)

1372 [5,916,268](#) T [Kit for an artificial acetabulum](#)

1373 [5,915,648](#) T [Perforated roll for guiding a flexible material web](#)

1374 [5,915,613](#) T [Suction web transfer device](#)

1375 [5,914,155](#) T [Method and applicator for direct or indirect application of a liquid or pasty coating medium onto a traveling material web, notably of paper or cardboard](#)

1376 [5,914,007](#) T [Press device with closeable grooves for smooth press face](#)

1377 [5,913,324](#) T [Apparatus for injecting additives into a flow of a highly viscous liquid](#)

1378 [5,912,471](#) T [Apparatus and method for monitoring the coating process of a thermal coating apparatus](#)

1379 [5,911,758](#) T [Tibia platform for a knee joint prosthesis and knee joint prosthesis with such a tibia platform](#)

1380 [5,911,174](#) T [Calender](#)

1381 [5,908,537](#) T [Three roll press](#)

1382 [5,906,642](#) T [Universal heart valve holder](#)

1383 [5,904,683](#) T [Anterior cervical vertebral stabilizing device](#)

1384 [5,904,587](#) T [Connector with a plug and a socket](#)

1385 [5,904,312](#) T [Reel slitter](#)

1386 [5,904,308](#) T [Device and treatment machine for the mechanical treatment of high-consistency fibrous material](#)

1387 [5,904,186](#) T [Series shed weaving machine for weaving multiple web panels on a single rotor](#)

1388 [5,902,692](#) T [Battery with planar high temperature fuel cells](#)

1389 [5,900,121](#) T [Dosing feeder for the breast box of papermaking machine](#)

1390 [5,900,120](#) T [Drying cylinder bearing support in a paper-making machine](#)

1391 [5,899,908](#) T [Spinal drill tube guide](#)

1392 [5,899,405](#) T [Winding machine for winding a traveling web of paper](#)

1393 [5,899,342](#) T [Hydrocyclone separator](#)

1394 [5,899,242](#) T [Thread clamp carrier body for a bringer gripper](#)

1395 [5,897,593](#) T [Lordotic spinal implant](#)

1396 [5,897,319](#) T [Self-tapping implant with helical flutes](#)

1397 [5,897,059](#) T [Nozzle for use in a torch head of a plasma torch apparatus](#)

1398 [5,895,427](#) T [Method for spinal fixation](#)

1399 [5,895,007](#) T [Method and device for winding a paper web to form a reel](#)

1400 [5,893,951](#) T [Applicator and method for direct or indirect application of a liquid or pasty coating medium onto a traveling material web](#)

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

[Next List](#)

Top

[View Cart](#)

[Home](#)

Quick

Advanced

Pat Num

Help

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Hits **1401 through 1450 out of 2889**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 1401 [5,893,505](#) Guide for a material web
- 1402 [5,891,517](#) Fluidized bed with uniform heat distribution and multiple port nozzle
- 1403 [5,891,307](#) Method of determining a volumetric percentage of air in a fiber suspension in a paper-making machine
- 1404 [5,891,195](#) Combined prosthetic aortic heart valve and vascular graft with sealed sewing ring
- 1405 [5,890,886](#) Burner for heating systems
- 1406 [5,890,519](#) Apparatus for controlling a warp tensioner of a weaving machine
- 1407 [5,888,351](#) Felt stretcher in a paper-making machine
- 1408 [5,884,674](#) Shed holder arrangement for a weaving rotor in a series shed loom
- 1409 [5,882,481](#) Blocking device in a paper-making machine
- 1410 [5,879,515](#) Jet device
- 1411 [5,879,514](#) Scraper device for a paper machine
- 1412 [5,878,507](#) Apparatus for a paper-making machine for delivering liquid from a first level to a second, higher level
- 1413 [5,876,456](#) Implantable prosthesis having interference-locked hole plugs
- 1414 [5,876,431](#) Small cable endocardial lead with exposed guide tube
- 1415 [5,876,408](#) Method for enhancing implantation of thin leads
- 1416 [5,876,204](#) Dental implant positioning guide
- 1417 [5,873,897](#) Method and apparatus for dual chambered tachyarrhythmia classification and therapy
- 1418 [5,873,894](#) Diagnostic test protocol in an implantable medical device
- 1419 [5,873,733](#) Training unit for the pacemaker emergency intervention system using magnetic entry code



- 1420 [5,871,532](#) [Epicardial lead for minimally invasive implantation](#)

1421 [5,871,428](#) [T Roll arrangement](#)

1422 [5,868,905](#) [T Paper-making machine including a deaerator for a fiber suspension](#)

1423 [5,868,841](#) [T Blade holder with swiveling device for positioning with respect to a device for transporting a material web](#)

1424 [5,865,944](#) [T Apparatus for directly applying a liquid or pasty medium onto a moving material web](#)

1425 [5,865,847](#) [T Lordotic spinal implant](#)

1426 [5,865,537](#) [T Mixing device for mixing a low-viscosity fluid into a high-viscosity fluid](#)

1427 [5,865,112](#) [T Extended nip press](#)

1428 [5,863,387](#) [T Ultrasonic device for deflocculating fiber suspension in a paper-making machine headbox nozzle](#)

1429 [5,862,837](#) [T Thread holder for a bringer rapier](#)

1430 [5,862,608](#) [T Moistening apparatus](#)

1431 [5,862,607](#) [T Single-tier drying section tailored for compensating stretching and shrinking of paper web](#)

1432 [5,861,009](#) [T Implantable cardiac stimulator with rate-adaptive T-wave detection](#)

1433 [5,860,322](#) [T Drive mechanism of a suction roll including a spur wheel gear and an outward mounting portion for a stationary suction box](#)

1434 [5,860,223](#) [T Device for drying a web](#)

1435 [5,858,175](#) [T Suction box with side fillers](#)

1436 [5,858,096](#) [T Application unit for the direct or indirect application of a liquid or pasty medium onto a moving material web](#)

1437 [5,858,090](#) [T Apparatus for the application of a liquid or pasty medium onto a moving material web, in particular of paper or board](#)

1438 [5,855,740](#) [T Press roll with extended press shoe having support forces concentrated in piston edges](#)

1439 [5,855,672](#) [T Stationary sliding bar](#)

1440 [5,853,815](#) [T Method of forming uniform thin coatings on large substrates](#)

1441 [5,853,546](#) [T Sealed titanium slice lip for a headbox](#)

1442 [5,853,359](#) [T Deflection adjustment roll](#)

1443 [5,851,358](#) [T Paper making machine with an integral suction chamber and air/water separator for a doctor element](#)

1444 [5,851,356](#) [T Method and apparatus for the lateral sealing of a drainage wedge in a twin-wire paper machine](#)

1445 [5,851,227](#) [T Cardiac pacemaker cable lead](#)

1446 [5,851,168](#) [T Roll for a rolling mechanism](#)

1447 [5,851,067](#) [T Static mixer with a bundle of chambered strings](#)

1448 [5,850,701](#) [T Dryer group with controlled heating and cooling of a paper web in a paper-making machine](#)

1449 [5,849,159](#) [T Multi-layer headbox with plastic and metal divider plate](#)

1450 [5,849,157](#) [T Oscillating roll with stationary cleaning tool for the manufacture of a continuous layer of material](#)

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AN/Sulzer: 2889 patents.

Hits 1451 through 1500 out of 2889

[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 1451 [5,848,760](#) Carrier roll winding machine having blow box and web severing
- 1452 [5,848,756](#) Method and device for the continuous winding up of a moving web
- 1453 [5,846,174](#) Roll
- 1454 [5,846,173](#) Anti-deflection roll
- 1455 [5,845,866](#) Method for a reel change in a winding machine, and winding machine suitable for carrying out the method
- 1456 [5,843,283](#) Lubrication of a roll jacket of a press roller
- 1457 [5,843,282](#) Heated roll bearing system
- 1458 [5,843,280](#) Extended nip press device with inclined end face plates
- 1459 [5,843,154](#) Apparatus for performing diagnostic and/or therapeutical heart interventions with a catheter
- 1460 [5,843,153](#) Steerable endocardial lead using magnetostrictive material and a magnetic field
- 1461 [5,843,133](#) Dynamic bandwidth control in an implantable medical cardiac stimulator
- 1462 [5,842,865](#) Self-tapping implant with multiple concave tapping channels
- 1463 [5,841,020](#) Apparatus and method for mixing, measuring and forwarding a multi-phase gas mixture
- 1464 [5,840,437](#) Apparatus with fuel cells
- 1465 [5,840,030](#) Ultrasonic marked cardiac ablation catheter
- 1466 [5,839,689](#) Air box for web carrier rolls and having a connecting wall
- 1467 [5,837,959](#) Single cathode plasma gun with powder feed along central axis of exit barrel
- 1468 [5,837,235](#) Process for regenerating bone and cartilage
- 1469 [5,837,102](#) Perforated and embossed sheet forming fabric
- 1470 [5,836,689](#) Device for kneading high-consistency fiber pulp

- 1471 [5,832,626](#) T Single felt dryer group

1472 [5,830,323](#) T Apparatus for dewatering a fiber web

1473 [5,830,275](#) T Paper coating apparatus

1474 [5,829,978](#) T Surface roughening of self-tapping dental implants

1475 [5,829,164](#) T Method and machine for drying a material web with guide rollers

1476 [5,829,158](#) T Dryer section with attached drive mechanism

1477 [5,827,975](#) T Method and apparatus for measuring the tension of the warp in a weaving machine

1478 [5,826,625](#) T Heald frame linear drive arrangement

1479 [5,823,928](#) T Roll

1480 [5,823,927](#) T Deflection controllable roller for use in calender

1481 [5,823,463](#) T Wound roll support in a web winding machine

1482 [5,823,462](#) T Exchange device for replacing transport belts in a web producing machine

1483 [5,823,342](#) T Packaging for mitral or aortic heart valve device

1484 [5,820,675](#) T Application unit for directly or indirectly applying a fluid or pasty medium to a continuous material web

1485 [5,820,063](#) T Method for the winding up of a longitudinally cut web of material, and apparatus for carrying out this method

1486 [5,817,153](#) T Method of photo-oxidative treatment of tissues containing collagen

1487 [5,817,130](#) T Implantable cardiac cardioverter/defibrillator with EMI suppression filter with independent ground connection

1488 [5,816,146](#) T Calender for satining paper

1489 [5,816,143](#) T Process for satining paper and calender for carrying out the process

1490 [5,816,124](#) T Method and device for transverse separation of a running material web

1491 [5,814,088](#) T Cardiac stimulator with lead failure detector and warning system

1492 [5,813,762](#) T Mixer tube for low viscosity fluids

1493 [5,813,136](#) T Machine for producing a sheet of material by direct press to dryer passage

1494 [5,811,157](#) T Method and device for producing a coated paper web using a coated roll

1495 [5,808,437](#) T Method for compensation of periodic shaking forces in an electrical rotating field machine

1496 [5,806,432](#) T Process for converting and printing on webs, and a printing machine for carrying out this process

1497 [5,800,791](#) T Column baffles for suspensions with precipitating substances

1498 [5,800,495](#) T Endocardial lead assembly

1499 [5,800,466](#) T Dynamic atrial detection sensitivity control in an implantable medical cardiac simulator

1500 [5,800,324](#) T Roll with vibration damper

[Prev. List](#)

[Next List](#)

Top

[View Cart](#)

Home

Quick

Advanced

Pat Num

Help

USPTO PATENT FULL-TEXT AND IMAGE DATABASE

[Home](#)

Quick

Advanced

Pat Num

Help

Prev. List

Next List

Bottom

[View Cart](#)

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Results of Search in US Patent Collection db for:

AN/Sulzer: 2889 patents.

Hits 1501 through 1550 out of 2889

Prev. 50 Hits

Next 50 Hits

Jump To

[Refine Search](#)

AN/Sulzer

PAT.
NO.

Title

- 1501 [5,799,556](#)  [Strip severing device for paper web](#)
 - 1502 [5,799,411](#)  [Steam blast box method for the zone-wise temperature control of a traveling paper web](#)
 - 1503 [5,799,409](#)  [Device for drying a material web with heated and cooled cylinders](#)
 - 1504 [5,798,465](#)  [Method for actively damping global flow oscillations in separated unstable flows and an apparatus for performing the method](#)
 - 1505 [5,797,561](#)  [Unwinding station for fiber webs including a device for performing a flying splice](#)
 - 1506 [5,795,441](#)  [Breast box for a papermaking machine](#)
 - 1507 [5,792,203](#)  [Universal programmable cardiac stimulation device](#)
 - 1508 [5,792,200](#)  [Adaptive mode switching in a rate-adaptive pacemaker and hysteresis for mode switching](#)
 - 1509 [5,792,036](#)  [Adjustable deflection roll and method of making](#)
 - 1510 [5,791,242](#)  [Calender for treating both sides of a paper web](#)
 - 1511 [5,791,159](#)  [Compression apparatus](#)
 - 1512 [5,789,022](#)  [Method and device for indirect coating of at least one side of a material web utilizing a free jet](#)
 - 1513 [5,788,817](#)  [Three roll press](#)
 - 1514 [5,788,816](#)  [Device for the production of multiple layered paper or cardboard](#)
 - 1515 [5,788,771](#)  [Apparatus for applying a fluid or pastry medium to a continuous material web, particularly one made of paper or cardboard](#)
 - 1516 [5,788,162](#)  [Application unit for directly or indirectly applying a fluid or pasty medium to a continuous material web](#)
 - 1517 [5,787,603](#)  [Pressing the web to the dryer in a dryer section](#)
 - 1518 [5,785,816](#)  [Method for the dewatering of a paper fiber material layer in a double-screen former and](#)

apparatus for its execution

- 1519 [5,785,815](#) T Process for damping pressure pulsations and apparatus for performing the process

1520 [5,785,273](#) T Apparatus for winding or unwinding webs, particularly paper webs

1521 [5,785,253](#) T Application unit for the direct or indirect application of a liquid or pasty medium onto a moving material web

1522 [5,784,955](#) T Calender in a paper-making or a coating machine

1523 [5,783,119](#) T Liquid distributor for columns

1524 [5,783,044](#) T Belt cleaning device for papermaking machines

1525 [5,782,929](#) T Acetabular shell having sintered screw hole plugs

1526 [5,782,926](#) T Wrist prosthesis

1527 [5,782,884](#) T Rate responsive cardiac pacemaker with peak impedance detection for rate control

1528 [5,782,879](#) T Apparatus and method for discriminating flow of blood in a cardiovascular system

1529 [5,782,636](#) T Bone contouring tool

1530 [5,782,009](#) T Device for guiding a sheet of fibrous material in a single-row dryer part

1531 [5,779,184](#) T Device and method for stabilizing a paper web at a time before the web is cut

1532 [5,779,168](#) T Refiner and tooling for refining suspended fibrous material

1533 [5,776,169](#) T Implantable cardiac stimulator for minimally invasive implantation

1534 [5,772,849](#) T Press

1535 [5,772,692](#) T Implantable medical device with automatic adjustment to externally generated shocks

1536 [5,772,691](#) T Implantable cardiac stimulator with polarity detection for detecting ectopic beats

1537 [5,771,793](#) T Calender having a control device

1538 [5,771,603](#) T Dryer section

1539 [5,770,050](#) T Flotation apparatus

1540 [5,770,015](#) T Drying section of a paper machine

1541 [5,769,881](#) T Endocardial lead with multiple branches

1542 [5,769,771](#) T Calender roller for the treatment of paper

1543 [5,768,858](#) T Method and apparatus for packaging a roll of material

1544 [5,768,783](#) T Method for fabricating a flat or centripetal wire

1545 [5,767,481](#) T Laser tail cutter assembly

1546 [5,766,421](#) T Extended nip press blanket

1547 [5,766,353](#) T Applicator for direct or indirect application of a liquid or pasty medium on a traveling material web

1548 [5,766,230](#) T Pacemaker with intra-stimulus capture detection

1549 [5,766,120](#) T Calender roller having a cylindrical base body

1550 [5,765,392](#) T Screw compressor apparatus for refrigerants with oils soluble in refrigerants

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

[Next List](#)

Top

[View Cart](#)

Home

Quick

Advanced

Pat Num

Help

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Hits 1551 through 1600 out of 2889

[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

PAT. NO.**Title**

- 1551 [5,762,111](#) Roller-type weft thread cutting apparatus
- 1552 [5,759,398](#) Screen for inlet opening of a pump
- 1553 [5,759,354](#) Paper machine including a hydraulic cylinder assembly with a non-metallic bushing
- 1554 [5,759,202](#) Endocardial lead with lateral active fixation
- 1555 [5,759,141](#) Calender roller
- 1556 [5,755,931](#) Method and apaprtus for preserving a press roll jacket
- 1557 [5,755,799](#) Joint implant with self-engaging attachment surface
- 1558 [5,755,797](#) Intervertebral prosthesis and a process for implanting such a prosthesis
- 1559 [5,755,764](#) Implantable cardiac stimulation catheter
- 1560 [5,755,575](#) Dental implant delivery system and method
- 1561 [5,755,267](#) Weaving machine operation by control of torque and rotation angle of a mechanical transmission
- 1562 [5,755,156](#) Calendar including a roller with a ductility factor F greater than or equal to 4
- 1563 [5,753,084](#) Elongated gap press with adjustable length
- 1564 [5,753,083](#) Hydraulic support arrangement for a shoe press device
- 1565 [5,753,081](#) Apparatus and method for controlling a pressure of a fiber suspension in a headbox or associated fluid conduit
- 1566 [5,752,325](#) Drier section for drying a continuous web
- 1567 [5,752,324](#) Steam blower box
- 1568 [5,749,972](#) Apparatus for the application of at least one liquid medium onto a moving material web
- 1569 [5,749,909](#) Transcutaneous energy coupling using piezoelectric device
- 1570 [5,749,900](#) Implantable medical device responsive to heart rate variability analysis

- 1571 [5,749,158](#) T Apparatus for the application of steam onto a paper web

1572 [5,749,157](#) T Dryer section for an apparatus for the production of a paper web

1573 [5,746,124](#) T Calender for treating a web of paper

1574 [5,746,009](#) T Temperature control in a paper machine dryer

1575 [5,743,024](#) T Single-tier drying section tailored for compensating stretching and shrinking of paper web

1576 [5,741,401](#) T Headbox of a paper machine

1577 [5,740,982](#) T Apparatus for producing a splice between strips on succeeding reels

1578 [5,738,726](#) T Roll doctor assembly

1579 [5,737,848](#) T Guide roll arrangement for paper machine drying section

1580 [5,736,011](#) T Wet end assembly for a paper making machine

1581 [5,735,956](#) T Applicator for coating a traveling fiber web

1582 [5,735,901](#) T Element for temporarily increasing the rigidity of an orthopaedic prosthesis

1583 [5,735,891](#) T Self-clamping anchoring sleeve

1584 [5,735,883](#) T Implantable cardiac stimulator with impedance based autothreshold

1585 [5,735,882](#) T Cardiac stimulator with backup-mode self-recovery

1586 [5,735,881](#) T Variable atrial blanking period in an implantable medical device

1587 [5,735,880](#) T Method and apparatus for reliably producing pacing pulse trains

1588 [5,735,850](#) T Fastening system for pedicel screws

1589 [5,735,198](#) T Roller bearing apparatus

1590 [5,735,060](#) T Dryer section including a device and method for transferring a strip of paper from a first treatment station to a second treatment station in a paper machine

1591 [5,735,059](#) T Drying cylinder positioning for dryer section

1592 [RE35,756](#) T Method of production of workpieces by welding equipment

1593 [5,732,903](#) T Device to facilitate the exchange of a material layer roll in the supply compartment on the fly while maintaining constant tension in the material layer

1594 [5,730,692](#) T Roll with vibration damper

1595 [5,730,598](#) T Prosthetic implants coated with hydroxylapatite and process for treating prosthetic implants plasma-sprayed with hydroxylapatite

1596 [5,730,376](#) T Apparatus for regulated dispersion treatment of highly consistent fibrous substances

1597 [5,730,125](#) T Implantable medical device with enclosed physiological parameter sensors or telemetry link

1598 [5,727,743](#) T Device and treatment machine for the mechanical treatment of high-consistency fibrous material

1599 [5,725,810](#) T Packing for a counterflow high pressure column

1600 [5,725,590](#) T Element for temporarily increasing the rigidity of an orthopaedic prosthesis

| | | | |
|----------------------------|---------------------------|--------------------------|---------------------------|
| Prev. List | Next List | Top | View Cart |
| Home | Quick | Advanced | Pat Num |

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Hits **1601 through 1650 out of 2889**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 1601 [5,722,997](#) Method and apparatus for cardiac impedance sensing
- 1602 [5,720,812](#) Coating apparatus and method to directly or indirectly apply a liquid or pasty medium onto a moving layer of material
- 1603 [5,720,768](#) Dual chamber pacing with interchamber delay
- 1604 [5,720,750](#) Device for the preparation of a tubular bone for the insertion of an implant shaft
- 1605 [5,718,720](#) Implantable cardiac stimulator with capture detection and impedance based autotuning of capture detection
- 1606 [5,718,560](#) Turbocompressor for non-ideal process gases
- 1607 [5,718,058](#) Process and apparatus for the traveling of a paper tail from a first to a second handling station in a paper machine
- 1608 [5,714,105](#) Method of making an endoprosthesis of compact thermoplastic composite material
- 1609 [5,713,939](#) Data communication system for control of transcutaneous energy transmission to an implantable medical device
- 1610 [5,713,935](#) Method and apparatus for monitored biphasic cardiac impedance sensing
- 1611 [5,713,931](#) Method and apparatus for detecting amplitude loss in cardiac pacing pulses
- 1612 [5,713,366](#) Method and apparatus for dual chamber cardiac analysis
- 1613 [5,711,854](#) Dimensioning of rolls in wide nip roll press
- 1614 [5,711,352](#) Mounting arrangement for linearly driven heald frames
- 1615 [5,709,778](#) Multiple shoe press for a paper making machine
- 1616 [5,709,712](#) Implantable cardiac stimulation device with warning system
- 1617 [5,709,216](#) Data reduction of sensed values in an implantable medical device through the use of a variable resolution technique

- 1618 [5,708,346](#) T [Method and control apparatus for controlling an AC-machine](#)

1619 [5,706,631](#) T [Method and device for packaging a roll formed by a wound web of material](#)

1620 [5,705,034](#) T [Method and apparatus for removing water from a web by means of presses](#)

1621 [5,704,285](#) T [Calender for the treatment of a paper web](#)

1622 [5,702,769](#) T [Method for coating a substrate with a sliding abrasion-resistant layer utilizing graphite lubricant particles](#)

1623 [5,702,476](#) T [Artificial joint shell](#)

1624 [5,702,465](#) T [Patella prosthesis having rotational and translational freedom](#)

1625 [5,702,454](#) T [Process for implanting an invertebral prosthesis](#)

1626 [5,702,431](#) T [Enhanced transcutaneous recharging system for battery powered implantable medical device](#)

1627 [5,702,337](#) T [Roll arrangement](#)

1628 [5,701,895](#) T [Subcutaneous electrical data port](#)

1629 [5,700,435](#) T [Method and apparatus for separating a substance from a liquid mixture by fractional crystallization](#)

1630 [5,695,611](#) T [Process for modifying a breast box for a paper or cartonmaking machine](#)

1631 [5,693,952](#) T [Optically controlled high-voltage switch for an implantable defibrillator](#)

1632 [5,691,075](#) T [High temperature fuel cell](#)

1633 [5,690,812](#) T [Process and apparatus for the separation of solid matter via flotation](#)

1634 [5,690,693](#) T [Transcutaneous energy transmission circuit for implantable medical device](#)

1635 [5,689,989](#) T [Method for the zigzag-like folding of a strip-like foil](#)

1636 [5,689,897](#) T [Steam blast box and method for the zone-wise temperature control of a traveling paper web](#)

1637 [5,688,375](#) T [Shoe press roll for a paper machine](#)

1638 [5,688,374](#) T [Headbox and manifold system for producing a multi-ply paper web](#)

1639 [5,688,047](#) T [Static mixer with monolithic mixing elements providing an increased resistance force during mixing](#)

1640 [5,685,955](#) T [Method for processing a web of material using individually controllable zones](#)

1641 [5,685,909](#) T [Device for producing paper webs coated on both sides](#)

1642 [5,684,255](#) T [Apparatus for measuring yarn tension](#)

1643 [5,683,551](#) T [Apparatus and method for sectional pulp introduction to a papermaking machine headbox](#)

1644 [5,683,509](#) T [Apparatus for applying a liquid or pasty medium onto a moving material web](#)

1645 [5,683,464](#) T [Spinal disk implantation kit](#)

1646 [5,681,514](#) T [Method for making an implantable conductive lead for use with a cardiac stimulator](#)

1647 [5,679,167](#) T [Plasma gun apparatus for forming dense, uniform coatings on large substrates](#)

1648 [5,679,107](#) T [Deflection-controllable roll for a calender or similar device](#)

1649 [5,676,799](#) T [Extended nip press shoe with adjustable stop](#)

1650 [5,673,617](#) T [Calendar for full and light calendering](#)

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

[Next List](#)

Top

[View Cart](#)

[Home](#)

Quick

Advanced

Pat Num

Help

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AN/Sulzer: 2889 patents.

Hits **1651 through 1700 out of 2889**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)

[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 1651 [5,673,616](#) [Apparatus for influencing the thickness and gloss and/or smoothness in the treatment of fiber material webs](#)
- 1652 [5,673,495](#) [Single-tier drying section with top-felted serpentine dryer section at dry end thereof](#)
- 1653 [5,671,665](#) [Calender for the treatment of a paper web and process for its operation](#)
- 1654 [5,671,548](#) [Three row drying cylinder group](#)
- 1655 [5,670,023](#) [Press of a paper machine for thin papers](#)
- 1656 [5,669,421](#) [Method of controlling the yarn tension in a weaving machine](#)
- 1657 [5,669,295](#) [Calender for treating both sides of a paper web](#)
- 1658 [5,666,998](#) [Cantilevered sensor for the thread tension detector](#)
- 1659 [5,666,741](#) [Drying section with additional press nip](#)
- 1660 [5,665,119](#) [Filling member made from metal for bone cavities](#)
- 1661 [5,664,903](#) [Support connections](#)
- 1662 [5,662,777](#) [Shoe press roll for press device for a paper machine](#)
- 1663 [5,662,571](#) [Deflection controlled roll](#)
- 1664 [5,662,570](#) [Deflection adjusted roll](#)
- 1665 [5,662,037](#) [Calender for treating both sides of a web of paper](#)
- 1666 [5,658,623](#) [Parting compound for the hot forming of encased metal parts and a process for manufacturing the parting compound](#)
- 1667 [5,658,346](#) [Inner shell for an artificial hip joint socket](#)
- 1668 [5,658,345](#) [Artificial acetabulum and method for manufacture](#)
- 1669 [5,658,343](#) [Areal implant](#)



- 1670 [5,658,294](#) [Instrument for holding an acetabular cup](#)
 - 1671 [5,657,796](#) [Modular series-shed weaving machine](#)
 - 1672 [5,657,794](#) [Carriage for changing the harness or heald frame in a loom](#)
 - 1673 [5,655,730](#) [Paper machine carrier drum apparatus](#)
 - 1674 [5,655,444](#) [Calender for webs of paper](#)
 - 1675 [5,655,442](#) [Calender for the treatment of a paper web](#)
 - 1676 [5,653,331](#) [Paper roll guide](#)
 - 1677 [5,651,946](#) [Exhaust gas catalytic converter, particularly for motor cars](#)
 - 1678 [5,651,863](#) [Apparatus and method for treating a sheet of material](#)
 - 1679 [5,650,047](#) [Pressing device for a pressing roll](#)
 - 1680 [5,649,569](#) [Warp tension measuring apparatus](#)
 - 1681 [5,649,371](#) [Dry unit of a dry end of a machine for producing material webs](#)
 - 1682 [5,647,958](#) [Wire part of a machine for the manufacture of fibrous material webs](#)
 - 1683 [5,647,556](#) [Method for performing a flying splice](#)
 - 1684 [5,647,555](#) [Winding roller support device for web material](#)
 - 1685 [5,645,691](#) [Extended nip press roll for a papermaking machine](#)
 - 1686 [5,645,689](#) [Multilayer headbox](#)
 - 1687 [5,645,606](#) [Outer shell for an at least two-shell joint socket of a hip joint prosthesis](#)
 - 1688 [5,645,604](#) [Tibia platform for a knee joint prosthesis](#)
 - 1689 [5,645,517](#) [Deflection adjusting roll](#)
 - 1690 [5,643,328](#) [Implantable cardiac stimulation device with warning system having elongated stimulation electrode](#)
 - 1691 [5,643,271](#) [Angled orthopedic surfacer and guide](#)
 - 1692 [5,639,349](#) [Method and device for quality improvement in multilayer and multiply papers](#)
 - 1693 [5,639,303](#) [Apparatus for the application on both sides of a liquid medium onto a moving material web, in particular of paper or cardboard](#)
 - 1694 [5,638,611](#) [Single-tier drying section tailored for compensating stretching and shrinking of paper web](#)
 - 1695 [5,635,033](#) [Paper machine for the manufacture of a multi-layer paper web](#)
 - 1696 [5,635,032](#) [Double wire former](#)
 - 1697 [5,635,030](#) [Process and device for guiding a material web](#)
 - 1698 [5,634,879](#) [Process for preparing a porous graft containing endothelial cells](#)
 - 1699 [5,632,456](#) [Winder for winding a paper web into a roll](#)
 - 1700 [5,632,435](#) [Process for the production of a soldered joint](#)

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

[Next List](#)

Top

[View Cart](#)

[Home](#)

Quick

Advanced

Pat Num

Help

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AN/Sulzer: 2889 patents.

Hits 1701 through 1750 out of 2889

[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

PAT. NO.**Title**

- 1701 [5,632,309](#) T Gripper projectile for a weaving machine
- 1702 [5,632,308](#) T Method for the metered insertion of weft yarn into a series shed weaving machine
- 1703 [5,632,101](#) T All top-felted single-tier drying section with post drying section curl control
- 1704 [5,630,838](#) T Muscle stimulation electrode for implantable cardiac stimulation device with warning system
- 1705 [5,630,820](#) T Surgical bicompartimental tensiometer for revision knee surgery
- 1706 [5,630,449](#) T Energy storer, for reducing drive torque and improving power consumption in a weaving machine
- 1707 [5,629,258](#) T Flat structural elements and a packing composed of such structural elements
- 1708 [5,628,717](#) T Roll, having controlled bending, for a calender or similar device
- 1709 [5,626,178](#) T Breast box for a papermaking machine
- 1710 [5,624,495](#) T Coating system including flexible blade for coating web material
- 1711 [5,624,464](#) T Artificial acetabulum
- 1712 [5,620,252](#) T Static mixer apparatus for highly viscous media
- 1713 [5,619,807](#) T Method and apparatus for processing a web of material
- 1714 [5,614,723](#) T Apparatus for treating fluids with ultraviolet radiation
- 1715 [5,614,063](#) T Inductive edge detector for paper machinery
- 1716 [5,613,831](#) T Apparatus for thrust compensation on shaft of rotary pump
- 1717 [5,613,525](#) T Method and apparatus for generating an artificial angular shaft position to operate a weaving machine
- 1718 [5,613,307](#) T Heatable roll for the treatment of webs of material as well as method for their operation
- 1719 [5,611,434](#) T Rotor for a screen grader
- T

- 1720 [5,611,143](#) [Process for making chilled iron rolls](#)

1721 [5,609,920](#) [T Method of and apparatus for coating at least one liquid medium onto a moving material web, in particular of paper or cardboard](#)

1722 [5,609,648](#) [T Acetabular cup assembly](#)

1723 [5,607,555](#) [T Paper machine forming section for producing a multilayer paper web](#)

1724 [5,602,216](#) [T Process and apparatus for performing a polymerisation in a tube reactor](#)

1725 [5,597,415](#) [T Profiling bar for a web coating device](#)

1726 [5,593,547](#) [T Press section of a paper machine](#)

1727 [5,592,751](#) [T Dryer section having combination of single and double tier dryer groups](#)

1728 [RE35,400](#) [T Rapier loom having picking tapes and spacers](#)

1729 [5,584,967](#) [T Twin-wire section in a multi-ply former](#)

1730 [5,582,689](#) [T Pressing apparatus having a concave pressure shoe with variable radius of curvature](#)

1731 [5,582,537](#) [T Apparatus for and method of sand-blasting the inner walls of bores, tubes, pipes and the like](#)

1732 [5,579,589](#) [T Process and apparatus for drying a fibrous web in a single-felt dryer group under low vacuum](#)

1733 [5,578,750](#) [T Sensor for magnetically scanning a moving element in an internal combustion engine](#)

1734 [5,578,172](#) [T Slice beam support plate](#)

1735 [5,578,125](#) [T Coating system for running webs of paper or cardboard](#)

1736 [5,577,685](#) [T Apparatus for winding a continuously incoming paper web](#)

1737 [5,577,441](#) [T Pressing device for extracting liquid from a pulp web](#)

1738 [5,575,313](#) [T Apparatus for monitoring a warp yarn movement in a multi-phase weaving machine](#)

1739 [5,571,066](#) [T Heatable roll for calendering or smoothing systems](#)

1740 [5,570,729](#) [T Method and apparatus for the rapid tanking of a pressure container with a gaseous medium](#)

1741 [5,568,826](#) [T Pile warp dispensing in advance of beat-up in a terry loom](#)

1742 [5,566,903](#) [T Roller mill for milling suspended fibrous material](#)

1743 [5,564,827](#) [T Device for the homogenization of high-viscosity fluids](#)

1744 [5,564,674](#) [T Valve actuated by its own medium](#)

1745 [5,564,473](#) [T Apparatus and method for correcting irregularities in a series shed weaving machine](#)

1746 [5,562,261](#) [T Coiling machine for coiling a continuous paper web](#)

1747 [5,560,808](#) [T Hydraulically actuated breast roll shake](#)

1748 [5,557,860](#) [T Dryer section with moistening devices at latter ends](#)

1749 [5,556,512](#) [T Beam for a paper making machine frame](#)

1750 [5,556,511](#) [T Process for drying paper webs](#)

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

[Next List](#)

Top

[View Cart](#)

[Home](#)

Quick

Advanced

Pat Num

Help

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AN/Sulzer: 2889 patents.

Hits 1751 through 1800 out of 2889[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 1751 [5,556,053](#) Winder for winding a traveling paper web
- 1752 [5,553,476](#) Process for the production of outer attachment faces on joint implants
- 1753 [5,551,906](#) Caliper assembly for grinder
- 1754 [5,551,171](#) Winding device for a fiber web
- 1755 [5,551,164](#) Drying section with an adjacent finishing roller
- 1756 [5,550,298](#) Device for carrying out catalyzed reactions
- 1757 [5,549,696](#) Inner shell for a hip joint socket
- 1758 [5,549,695](#) Composite artificial socket and hip joint prosthesis
- 1759 [5,549,692](#) Two-part hipjoint socket for anchoring in the pelvic bone
- 1760 [5,548,942](#) Method and apparatus for packaging a roll of material
- 1761 [5,545,008](#) Method and apparatus for conveying a fluid
- 1762 [5,544,422](#) Drying section
- 1763 [5,538,555](#) Indirect coating device with applicator for providing a uniform coating on an applicator roll
- 1764 [5,538,048](#) System and method for regulating the cloth fell position in a loom
- 1765 [5,537,756](#) Device for evacuating condensate from a fluted drying cylinder by means of condensate evacuation pipes
- 1766 [5,536,699](#) Packing having catalytic or absorbent agents
- 1767 [5,536,312](#) Doctor device
- 1768 [5,533,443](#) Method for influencing the thickness and gloss and/or smoothness in the treatment of fiber material webs
- 1769 [5,530,050](#) Thermal spray abradable powder for very high temperature applications



- 1770 [5,529,170](#) [Feed screw for sedimentation or treatment systems](#)
- 1771 [5,527,422](#) [Machine for continuous manufacture of chipboards, fibreboards or similar products](#)
- 1772 [5,524,355](#) [Method and device for the transport of a liquid-gas mixture in a paper making machine](#)
- 1773 [5,520,812](#) [Process for the biological purification of water](#)
- 1774 [5,520,344](#) [Apparatus for the comminution of suspended fibre material](#)
- 1775 [5,520,224](#) [Method and weaving machine for monitoring the fell position following weaving operation interruption](#)
- 1776 [5,518,038](#) [Modular series-shed weaving machine](#)
- 1777 [5,517,766](#) [Paper machine drying section](#)
- 1778 [5,515,871](#) [Hollow needle for medical use and a laser method for manufacturing](#)
- 1779 [5,513,757](#) [Continuous cut slotted screen basket](#)
- 1780 [5,513,566](#) [Rotary printing machine](#)
- 1781 [5,510,039](#) [Method for separating off solid materials](#)
- 1782 [5,509,536](#) [Method and apparatus for the sorting of fiber suspensions](#)
- 1783 [5,507,828](#) [Artificial acetabulum](#)
- 1784 [5,507,825](#) [Kit for an artificial joint socket, in particular a hipjoint socket](#)
- 1785 [5,507,821](#) [Artificial wrist joint](#)
- 1786 [5,506,055](#) [Boron nitride and aluminum thermal spray powder](#)
- 1787 [5,504,247](#) [Method and apparatus for purifying acrylic acid, and acrylic acid purified by the method](#)
- 1788 [5,503,194](#) [Warp guiding device module for a series-shed weaving machine](#)
- 1789 [5,501,687](#) [Body for distributing bone cement for the anchoring of implants](#)
- 1790 [5,500,160](#) [Vortex packing for mass exchange columns and static mixers](#)
- 1791 [5,500,018](#) [Sealing element in the form of a strap](#)
- 1792 [5,499,662](#) [Method for preventing the formation of fabric blemishes by controlling beat-up in a loom](#)
- 1793 [5,494,760](#) [Object with an at least partly amorphous glass-metal film](#)
- 1794 [5,492,408](#) [Static mixing apparatus](#)
- 1795 [5,492,153](#) [Clamp type arrangement for presenting weft threads to a gripper](#)
- 1796 [5,483,995](#) [Device for coupling and uncoupling loom heald shafts](#)
- 1797 [5,483,992](#) [Annular valve for a piston compressor](#)
- 1798 [5,477,659](#) [Method and arrangement for the packaging of a material-web roll](#)
- 1799 [5,475,152](#) [Process and composition](#)
- 1800 [5,473,082](#) [Device for carrying out catalyzed reactions](#)

| | | | | |
|----------------------------|---------------------------|--------------------------|---------------------------|----------------------|
| Prev. List | Next List | Top | View Cart | |
| Home | Quick | Advanced | Pat Num | Help |

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[Home](#)

Quick

Advanced

Pat Num

Help

Prev. List

[Next List](#)

Bottom

[View Cart](#)

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Results of Search in US Patent Collection db for:

AN/Sulzer: 2889 patents.

Hits 1801 through 1850 out of 2889

Prev. 50 Hits

Next 50 Hits

Jump To

[Refine Search](#)

AN/Sulzer

PAT.
NO.

Title

- 1801 [5,470,542](#) T [Catalyzing fixed bed reactor](#)
 - 1802 [5,469,896](#) T [Rotatable cutting device for weft threads](#)
 - 1803 [5,469,784](#) T [Calender assembly including an additional roll displaced into the path of the web of material](#)
 - 1804 [5,468,389](#) T [Double-acting pusher centrifuge](#)
 - 1805 [5,467,817](#) T [Packing element for methods of exchange or conversion of materials designed as a heat-transfer element](#)
 - 1806 [5,467,687](#) T [Piston compressor](#)
 - 1807 [5,465,763](#) T [Thread holder for a gripper loom](#)
 - 1808 [5,465,502](#) T [Suction roll in particular for a paper web dryer](#)
 - 1809 [5,458,649](#) T [Two-part hipjoint socket](#)
 - 1810 [5,456,865](#) T [Matter-conductive crown element for the packing of a matter-exchange column](#)
 - 1811 [5,456,645](#) T [Roll](#)
 - 1812 [5,456,533](#) T [Static mixing element having deflectors and a mixing device](#)
 - 1813 [5,450,880](#) T [Insertion vehicle and carriage for changing a fabric to be woven on a loom](#)
 - 1814 [5,447,182](#) T [Process for weaving a three weft loop fabric and product thereof](#)
 - 1815 [5,445,490](#) T [Bale-carrying device](#)
 - 1816 [5,443,000](#) T [Calender](#)
 - 1817 [5,441,793](#) T [Orderly packing for a column](#)
 - 1818 [5,441,086](#) T [Gripper shuttle for a loom](#)
 - 1819 [5,441,085](#) T [Warp thread insertion device for series-shed looms](#)
 - 1820 [5,439,520](#) T [Applicator for coating webs of paper or cardboard](#)

- 1821 5,439,037 T Weft thread distribution device for a series shed loom

1822 5,437,850 T Method for calcining moist gypsum

1823 5,437,798 T Purification of salt-charged waste water by wet oxidation under super-critical conditions

1824 5,437,313 T Weft thread distribution device for a series shed loom

1825 5,436,426 T Fixture and method for cooling tubular substrate during thermal spraying

1826 5,435,354 T Accelerator lever for projectile looms

1827 5,434,210 T Thermal spray powders for abradable coatings, abradable coatings containing solid lubricants and methods of fabricating abradable coatings

1828 5,431,787 T Press section of a papermaking machine

1829 5,431,785 T Multilayer head box for a paper machine

1830 5,431,321 T Roll for web pressing or web guiding

1831 5,431,194 T Series shed loom

1832 5,427,021 T Calender for material webs or the like

1833 5,427,020 T Finger-protection device for a roller gap

1834 5,425,767 T Anchor for an artificial ligament

1835 5,423,948 T Headbox with a vertical partition between perforated rolls

1836 5,423,947 T Separating the edge strip of a paper web in the press section from the water-impermeable belt

1837 5,423,355 T Method and apparatus for limiting stresses in weft yarn advancing towards a weft insertion mechanism

1838 5,422,020 T Solid-bed reactor for biological sewage treatment

1839 5,419,242 T Roller arrangement with a deflection compensation roller

1840 5,418,079 T Axially symmetric fuel cell battery

1841 5,417,938 T Device for carrying out catalyzed reactions

1842 5,417,806 T Method of removing fine contaminants from used paper fibre material

1843 5,417,762 T Mounting apparatus for doctor blades

1844 5,415,206 T Yarn clamp for a bringer gripper

1845 5,412,977 T Turbo machine with an axial dry gas seal

1846 5,407,468 T Process and a plant for the deoxidation of water

1847 5,406,985 T Series-shed loom with adjustable airjet delivery system for different loom widths

1848 5,406,883 T Dewatering press for compressibly dewaterable material

1849 5,406,603 T Apparatus for removing aerosols from the air of a nuclear reactor containment

1850 5,402,606 T Roll grinder

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

Next List

Top

[View Cart](#)

[Home](#)

Quick

Advanced

Pat Num

Help

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AN/Sulzer: 2889 patents.

Hits 1851 through 1900 out of 2889[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 1851 [5,400,708](#) Supporting connections between two rolls
- 1852 [5,396,898](#) Method of comminuting soft tissue as well as means of performing the method
- 1853 [5,393,290](#) Roll with adjustable deflection
- 1854 [5,392,817](#) Apparatus for altering the loop length of terry cloth
- 1855 [5,392,323](#) Reactor pressure vessel in a nuclear power station
- 1856 [5,390,592](#) Dewatering press for compressibly dewaterable material
- 1857 [5,388,974](#) Gear pump
- 1858 [5,387,782](#) Apparatus for smoothing paper webs
- 1859 [5,385,789](#) Composite powders for thermal spray coating
- 1860 [5,385,229](#) Container for the packaging of a hollow endoprosthesis
- 1861 [5,383,833](#) Roll for heating or cooling running webs
- 1862 [5,382,096](#) Bearing for a heated roll
- 1863 [5,380,088](#) Mixing device for small fluid quantities
- 1864 [5,372,845](#) Method for preparing binder-free clad powders
- 1865 [5,372,068](#) Rotary printing press
- 1866 [5,371,954](#) Method and apparatus for the guiding of fibre webs
- 1867 [5,370,703](#) Double-cup hipjoint socket suitable for use in revision
- 1868 [5,370,697](#) Artificial intervertebral disk member
- 1869 [5,370,695](#) Metal shank
- 1870 [5,370,157](#) Releasable heald rod to heald frame fastener
- 1871 [5,365,983](#) Method and device for housing non-shedding loom shaft rods

- 1872 [5,362,900](#) T [Process and composition](#)
- 1873 [5,361,796](#) T [Installation for refuelling a mobile pressure vessel with a gaseous fuel and a method of operation of an installation of that kind](#)
- 1874 [5,353,860](#) T [Casting unit for the manufacturing of a plurality of cast parts](#)
- 1875 [5,351,723](#) T [Three dimensional cam drive for gripper loom belt wheel](#)
- 1876 [5,350,566](#) T [Reactor for heterogeneous reactions with a catalyst member](#)
- 1877 [5,349,990](#) T [Device for holding weft threads for series-shed looms](#)
- 1878 [5,348,054](#) T [Device for making a hinged connection between two parts in a loom](#)
- 1879 [5,348,053](#) T [Device for coupling and uncoupling heald shafts](#)
- 1880 [5,347,915](#) T [Piston compressor for the oilfree compression of gases](#)
- 1881 [5,347,728](#) T [Suction roll, especially for a paper web drier](#)
- 1882 [5,346,562](#) T [Method of production of iron aluminide materials](#)
- 1883 [5,345,977](#) T [Gripper loom having warp thread bearer members](#)
- 1884 [5,345,864](#) T [Printing cylinder of a rotary printing press and a method for use therewith](#)
- 1885 [5,341,851](#) T [Loom having at least two sectional warp beams](#)
- 1886 [5,341,810](#) T [Sterile puncturing device for blood vessels with a non-sterile ultrasound probe, and apparatus for preparing the device](#)
- 1887 [5,338,519](#) T [Process and apparatus for separating substances by crystallization](#)
- 1888 [5,335,698](#) T [Method of restarting a loom after stoppage](#)
- 1889 [5,333,544](#) T [Mobile platform for operators of calenders](#)
- 1890 [5,330,535](#) T [Screw-nut for screwing implants together](#)
- 1891 [5,330,267](#) T [Stationary fluid mixer with fluid guide surfaces](#)
- 1892 [5,326,541](#) T [Device for substance separation from a liquid mixture by crystallization, and method](#)
- 1893 [5,326,358](#) T [Knee joint prosthesis](#)
- 1894 [5,322,412](#) T [Method and apparatus for optimizing the operating parameters of a double-regulated water turbine](#)
- 1895 [5,320,713](#) T [Method of using a forming section of a papermaking machine](#)
- 1896 [5,320,644](#) T [Intervertebral disk prosthesis](#)
- 1897 [5,320,428](#) T [Mixer installation, catalyzer installation and use of the catalyzer installation](#)
- 1898 [5,318,670](#) T [Method for the generation of smoothness and gloss of a paper web](#)
- 1899 [5,316,050](#) T [Air-operated selvage laying equipment for looms](#)
- 1900 [5,314,490](#) T [Outer cup for an artificial hipjoint socket](#)

| | | | | |
|----------------------------|---------------------------|--------------------------|---------------------------|----------------------|
| Prev. List | Next List | Top | View Cart | |
| Home | Quick | Advanced | Pat Num | Help |

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AN/Sulzer: 2889 patents.

Hits 1901 through 1950 out of 2889

[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)

[Refine Search](#)

AN/Sulzer

**PAT.
NO.**
Title

- 1901 [5,312,225](#) Axially thrust-compensated turbo machine
- 1902 [5,310,058](#) Cover for roll of convoluted sheet material
- 1903 [5,308,450](#) Press section of a papermaking machine
- 1904 [5,307,563](#) Method of making rolls with elastic covers
- 1905 [5,306,993](#) System of driving by electric motor machines which work in a periodic manner at torque variable as a function of the angle of rotation
- 1906 [5,305,802](#) Drive adjustment device for sectional warp beam let-off motion
- 1907 [5,303,745](#) Weaving machine with weft break clearing devices
- 1908 [5,302,252](#) Heated extended nip press with inlet support pocket
- 1909 [5,301,403](#) Method of producing metal foil from a reactive metal sheet utilizing a hot rolling thermal pack assembly
- 1910 [5,298,126](#) Headbox for a paper-making machine
- 1911 [5,298,122](#) Measuring device and method for measuring the crosswise profile of a paper web
- 1912 [5,292,382](#) Molybdenum-iron thermal sprayable alloy powders
- 1913 [5,290,314](#) Finger joint prosthesis made of metal
- 1914 [5,290,223](#) Deflection controlled roll
- 1915 [5,287,895](#) Equipment for transporting and handling weft-yarn stock bobbins
- 1916 [5,285,844](#) Heating or cooling rolls
- 1917 [5,282,933](#) Wet section for a twin wire papermaking machine
- 1918 [5,282,870](#) Artificial knee joint
- 1919 [5,281,369](#) Supporting grate for packings in material exchange columns
-

- 1920 [5,279,424](#) [T](#) [Floatation apparatus for removal of disturbing substances, especially printing ink from waste paper suspensions](#)

1921 [5,275,228](#) [T](#) [Process and apparatus for production of single-crystal turbine blades](#)

1922 [5,275,227](#) [T](#) [Casting process for the production of castings by directional or monocrystalline solidification](#)

1923 [5,271,747](#) [T](#) [Meniscus platform for an artificial knee joint](#)

1924 [5,270,131](#) [T](#) [Module for a fuel cell battery](#)

1925 [5,269,075](#) [T](#) [Apparatus for interconnecting two groups of driers of a papermaking machine](#)

1926 [5,268,077](#) [T](#) [Apparatus and method for deaerating or degassing a paper stock suspension](#)

1927 [5,266,167](#) [T](#) [Method of roll cooling in a paper machine](#)

1928 [5,264,300](#) [T](#) [Centrally symmetrical fuel cell battery](#)

1929 [5,263,840](#) [T](#) [Calendar for surface treatment of material webs](#)

1930 [5,263,826](#) [T](#) [Device for refueling a gaseous fuel tank](#)

1931 [5,262,010](#) [T](#) [Dewatering device with adjustable force elements for the web-forming section of a papermaking machine](#)

1932 [5,261,480](#) [T](#) [Process and apparatus for repair of drive blades such as turbine blades](#)

1933 [5,261,409](#) [T](#) [Puncturing device for blood vessels](#)

1934 [5,259,929](#) [T](#) [Twin wire former](#)

1935 [5,259,441](#) [T](#) [Apparatus for the production of directionally solidified castings](#)

1936 [5,259,422](#) [T](#) [Mechanism for the acceleration of the projectile of a projectile loom](#)

1937 [5,257,698](#) [T](#) [Cleaner for stock suspensions](#)

1938 [5,255,974](#) [T](#) [Static mixer](#)

1939 [5,255,447](#) [T](#) [Heat protection hood](#)

1940 [5,251,677](#) [T](#) [Picking device in projectile looms](#)

1941 [5,251,575](#) [T](#) [Installation for cooling hot, dust-charged gas in a steam generator, and a process for operating said installation](#)

1942 [5,249,758](#) [T](#) [Apparatus for the continuous winding of a web of sheet-like material, in particular a paper web](#)

1943 [5,247,969](#) [T](#) [Feeding and removing weft yarn stock bobbins to a loom bobbin frame](#)

1944 [5,247,968](#) [T](#) [Projectile loom having a composite material multiple weft device](#)

1945 [5,246,037](#) [T](#) [Clearing mispicks in rapier looms](#)

1946 [5,245,920](#) [T](#) [Method of calendering a paper web](#)

1947 [5,244,164](#) [T](#) [Yarn brake having an electromagnetically operated brake lamella](#)

1948 [5,241,994](#) [T](#) [Rapier loom having a picking mechanism adjustable to yarn properties](#)

1949 [5,240,666](#) [T](#) [Apparatus and method for producing plastic foils](#)

1950 [5,240,663](#) [T](#) [Method,apparatus and extrusion nozzle for producing a member from extrudable material](#)

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

[Next List](#)

Top

[View Cart](#)

Home

Quick

Advanced

Pat Num

Help

USPTO PATENT FULL-TEXT AND IMAGE DATABASE[Home](#)[Quick](#)[Advanced](#)[Pat Num](#)[Help](#)[Prev. List](#)[Next List](#)[Bottom](#)[View Cart](#)

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Hits 1951 through 2000 out of 2889

[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 1951 [5,237,154](#) Process for manufacturing a slotted hole screen
- 1952 [5,236,459](#) Bone implant and method of making same
- 1953 [5,236,090](#) Flotation-deinking-device
- 1954 [5,233,150](#) Method of production of workpieces by welding equipment
- 1955 [5,232,025](#) Shaft rod and heald frame for a loom
- 1956 [5,231,924](#) Apparatus for the vertical adjustment of rolls
- 1957 [5,230,769](#) Process and apparatus for separating substances by crystallization
- 1958 [5,230,755](#) Protective layer for a metal substrate and a method of producing same
- 1959 [5,230,370](#) Shaft rod and a heald frame for a loom
- 1960 [5,228,836](#) Runner for a pump
- 1961 [5,226,457](#) Corrugated shaft rod and a Heald frame for a loom
- 1962 [5,225,043](#) Twin wire former with water guide element over the forming zone
- 1963 [5,224,997](#) Apparatus for producing a surface layer on a metallic workpiece
- 1964 [5,224,521](#) Weft catcher with gripping device
- 1965 [5,224,517](#) Loom cloth beam changer with loop forming wedge for incoming cloth
- 1966 [5,219,581](#) Cooling device for a blow extruder
- 1967 [5,212,023](#) Solid electrolytic fuel cell and method of dissipating heat therein
- 1968 [5,210,680](#) Card cage having an air cooling system
- 1969 [5,209,272](#) Gripper changer for projectile looms
- 1970 [5,209,269](#) Positive eccentric dobby
- 1971 [5,209,062](#) Large diesel engine

- 1972 [5,205,933](#) Pusher centrifuge
- 1973 [5,205,377](#) Method of and device for timed lubrication by means of a lubricant mist
- 1974 [5,205,327](#) Electrostatic weft detector
- 1975 [5,201,825](#) Sterile environment packaging
- 1976 [5,201,346](#) Thread feeding guide arrangement to a weft accumulator tube
- 1977 [5,199,468](#) Weft yarn clearing device
- 1978 [5,199,345](#) Piston compressor for the oilfree compression of a gas
- 1979 [5,197,988](#) Femoral prosthesis
- 1980 [5,197,987](#) Knee joint prosthesis
- 1981 [5,197,174](#) Controlled deflection roll
- 1982 [5,196,471](#) Thermal spray powders for abradable coatings, abradable coatings containing solid lubricants and methods of fabricating abradable coatings
- 1983 [5,196,018](#) Knock-out instrument for the shanks of hipjoint prostheses
- 1984 [5,193,272](#) Process for repair of drive blades such as turbine blades
- 1985 [5,192,331](#) Shank for a femur head prosthesis
- 1986 [5,192,322](#) Implant for a prosthetic ligament and/or tendon replacement
- 1987 [5,188,154](#) Weaving rotor comb fin design for series-shed loom
- 1988 [5,186,218](#) Gripper changer for projectile looms
- 1989 [5,186,216](#) Torsion rod type picking mechanism for a projectile loom
- 1990 [5,184,650](#) Loom having a resilient locking element for the cloth beam bearing
- 1991 [5,181,926](#) Bone implant having relatively slidable members
- 1992 [5,181,924](#) Patella prosthesis
- 1993 [5,179,980](#) Weft yarn brake with logic circuit control
- 1994 [5,179,979](#) Rapier loom with inclined tape guide
- 1995 [5,179,894](#) Calender with positionable rollers
- 1996 [5,176,708](#) Prosthetic implant
- 1997 [5,176,185](#) Guide teeth for a rapier picking tape
- 1998 [5,174,935](#) Method of forming a ceramic body
- 1999 [5,174,341](#) Traversing shed loom with warp placing guides
- 2000 [5,171,407](#) Distillation plant for producing hydrogen peroxide

| | | | | |
|----------------------------|---------------------------|--------------------------|---------------------------|----------------------|
| Prev. List | Next List | Top | View Cart | |
| Home | Quick | Advanced | Pat Num | Help |

USPTO PATENT FULL-TEXT AND IMAGE DATABASE

[Home](#)

Quick

Advanced

Pat Num

Help

Prev. List

Next List

Bottom

11 Vie

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AN/Sulzer: 2889 patents.

Hits 2001 through 2050 out of 2889

Prev. 50 Hits

Next 50 Hits

Jump To

[Refine Search](#)

AN/Sulzer

PAT.
NO.

Title

- 2001 [5,171,327](#) T Bone implant

2002 [5,171,323](#) T Femoral head prosthesis

2003 [5,171,287](#) T Plastic acetabulum

2004 [5,171,280](#) T Intervertebral prosthesis

2005 [5,171,274](#) T Implant for replacing a ligament or tendon

2006 [5,168,323](#) T Device and method for determining impurities in a gas

2007 [5,167,770](#) T De-watering apparatus in a two-wire former

2008 [5,163,364](#) T Method for calendering a paper or cardboard web

2009 [5,162,288](#) T Catalyst element for heterogeneous reactions

2010 [5,161,623](#) T Percussion device

2011 [5,158,713](#) T Arrangement for collecting and mixing liquid in a counter-current column

2012 [5,158,712](#) T Multilayer angular packing

2013 [5,158,120](#) T Clearing a weft yarn break in a loom

2014 [5,156,625](#) T Acetabular prosthesis having a metal supporting shell

2015 [5,152,041](#) T Method and apparatus for rolling continuous material

2016 [5,147,999](#) T Laser welding device

2017 [5,147,425](#) T Driving and supply unit for a cooler

2018 [5,147,402](#) T Implant for ingrowth of osseous tissue

2019 [5,146,955](#) T Filling thread distributor mechanism for a series-shed weaving machine

2020 [5,146,664](#) T Controlled deflection roll

2021 [5,144,987](#) T Weft drawing-in device including slotted tubular guide members

- 2022 [5,143,557](#) Surface coating made from an aluminum-based alloy
- 2023 [5,139,528](#) Method of securing a mesh to a metal substrate for a bone implant
- 2024 [5,137,678](#) Method for calendering a paper or cardboard web coated at both sides
- 2025 [5,135,033](#) Rapier loom having picking tapes and spacers
- 2026 [5,133,770](#) Shaft for prosthesis
- 2027 [5,133,769](#) Cap for a femur head
- 2028 [5,133,767](#) Prosthesis having a deformable implant surface
- 2029 [5,130,062](#) Packing for a material and heat exchange column
- 2030 [5,129,431](#) Giver for a gripper loom
- 2031 [5,127,146](#) Method for production of thin sections of reactive metals
- 2032 [5,122,333](#) Apparatus for eliminating aerosols from air from an escaping nuclear reactor containment vessel
- 2033 [5,122,310](#) Gas/liquid distributor for a counter-current column
- 2034 [5,121,535](#) Method for production of thin sections of reactive metals
- 2035 [5,117,923](#) Hydraulic jackhammer
- 2036 [5,116,696](#) Gas and air feed member for a feed cell battery and a fuel cell battery
- 2037 [5,116,477](#) Drainage device in a double-sieve mold
- 2038 [5,116,373](#) Pull-through appliance
- 2039 [5,111,566](#) Controlled deflection roll
- 2040 [5,109,890](#) Loom sley drive
- 2041 [5,108,450](#) Femur head prosthesis
- 2042 [5,108,447](#) Artificial acetabulum
- 2043 [5,108,446](#) Hip joint prosthesis
- 2044 [5,108,439](#) Centering element for a shank of a joint endoprosthesis
- 2045 [5,108,431](#) Ligament anchor
- 2046 [5,107,933](#) Hydraulic drilling outfit
- 2047 [5,107,904](#) Loom having a compact bobbin holder
- 2048 [5,105,855](#) Apparatus and method for clearing a warp yarn break in a loom
- 2049 [5,103,876](#) Rotatable thread catcher for weft metering device
- 2050 [5,096,541](#) Method for actively damping vibrations on a paper-making machine

| | | | | |
|----------------------------|---------------------------|--------------------------|---------------------------|----------------------|
| Prev. List | Next List | Top | View Cart | |
| Home | Quick | Advanced | Pat Num | Help |

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Hits **2051 through 2100 out of 2889**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)

[Refine Search](#)

AN/Sulzer

PAT. NO.**Title**

- 2051 [5,094,911](#) **T** Metal paper glazing roller for a paper machine
- 2052 [5,094,274](#) **T** Heddle frame carrier for interchangeable heddle frames
- 2053 [5,094,163](#) **T** Impression cylinder of a rotogravure press
- 2054 [5,092,900](#) **T** Femur head prosthesis
- 2055 [5,090,455](#) **T** Dual torsion bar picking mechanism for a loom
- 2056 [5,090,453](#) **T** Torsion bar type warp tensioning device for a loom
- 2057 [5,088,523](#) **T** Heddle selection in a weaving machine for rethreading
- 2058 [5,084,048](#) **T** Implant for vertebrae with spinal stabilizer
- 2059 [5,083,590](#) **T** Three-way valve
- 2060 [5,083,585](#) **T** Clamp element for a weft picking element
- 2061 [5,082,030](#) **T** Pneumatic threading-in tubes for repairing warp yarn breaks in a weaving machine
- 2062 [5,080,678](#) **T** Artificial acetabulum
- 2063 [5,080,143](#) **T** Selvedging device with threading nozzle and tuck-in needle
- 2064 [5,076,891](#) **T** Heated roller and method for its operation
- 2065 [5,074,340](#) **T** Yarn selector unit for a weft feeder
- 2066 [5,074,019](#) **T** Roll with induction heating arrangement
- 2067 [5,072,760](#) **T** Device for drawing a yarn into a weft accumulator
- 2068 [5,071,513](#) **T** Method for the mechanical-thermal dewatering of a fiber stock web
- 2069 [5,068,093](#) **T** Method for producing titanium dioxide
- 2070 [5,067,527](#) **T** Adjustment of weft yarn stretch in a shed of an air jet loom
- 2071 [5,066,191](#) **T** Turbine with control system
- 2072 [5,063,972](#) **T** Projectile accelerator for a loom

- 2073 [5,063,971](#) T Clutch element for a heald shaft coupling
- 2074 [5,063,118](#) T Abrasive dental strip
- 2075 [5,061,573](#) T Method of making a metal alloy strip and a strip made thereby
- 2076 [5,061,347](#) T Adjustable ledge for the sheet forming zone of a papermaking machine
- 2077 [5,058,628](#) T Terry loom having programmable pile forming elements
- 2078 [5,052,446](#) T Thermoplastic heddle with braided fiber tube reinforcement
- 2079 [5,052,275](#) T Horizontal reciprocating compressor with an eccentrically adjustable piston therein
- 2080 [5,050,644](#) T Coupling arrangement for a loom harness shaft
- 2081 [5,045,115](#) T Method for treating solid residues containing heavy metals from combustion plants
- 2082 [5,037,442](#) T Fixing stem for a prosthesis
- 2083 [5,037,378](#) T Process for coating a flexible tubular prosthesis with living cells
- 2084 [5,035,714](#) T Reinforcement for a bone cement bed
- 2085 [5,035,268](#) T Picking belt for a gripper weaving machine
- 2086 [5,033,940](#) T Reciprocating high-pressure compressor piston with annular clearance
- 2087 [5,033,514](#) T Fiber reinforced plastic accelerating lever for a projectile loom
- 2088 [5,032,156](#) T Device for performing a sorption process
- 2089 [5,031,671](#) T Weft yarn changer for a loom
- 2090 [5,031,666](#) T Cloth beam changer with resilient transmission link on gripping arm
- 2091 [5,030,065](#) T Reciprocating compressor
- 2092 [5,029,622](#) T Gas refuelling device and method of refuelling a motor vehicle
- 2093 [5,025,860](#) T Method and apparatus of obtaining natural gas from a maritime deposit
- 2094 [5,022,319](#) T Apparatus for neutralizing overhanging loads
- 2095 [5,019,106](#) T Fixing stem for a prosthesis
- 2096 [5,019,082](#) T Rasp-like reaming instrument
- 2097 [5,016,679](#) T Elastically mounted pneumatic thread feed device
- 2098 [5,014,871](#) T Closable vessel
- 2099 [5,014,756](#) T Pile warp tension control in a loom
- 2100 [5,013,586](#) T Method and device for the uniformly even application of a resin coating on a substrate

[Prev. List](#)[Next List](#)[Top](#)[View Cart](#)[Home](#)[Quick](#)[Advanced](#)[Pat Num](#)[Help](#)

USPTO PATENT FULL-TEXT AND IMAGE DATABASE[Home](#)[Quick](#)[Advanced](#)[Pat Num](#)[Help](#)[Prev. List](#)[Next List](#)[Bottom](#)[View Cart](#)

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Hits **2101 through 2150 out of 2889**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)

[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 2101 [5,012,844](#) [Weft yarn threading device for a jet loom](#)
- 2102 [5,008,068](#) [Plant comprising a nuclear reactor, more particularly a control rod system for nuclear reactor plant](#)
- 2103 [5,007,464](#) [Electromagnetic weft brake](#)
- 2104 [5,006,133](#) [Method and apparatus for deoxidation of sea-water](#)
- 2105 [5,002,096](#) [Heddle frame actuating apparatus with flexure spring](#)
- 2106 [5,000,166](#) [Implant kit for stabilizing regions of a spine](#)
- 2107 [4,999,084](#) [Method for heat treating short fiber fractions after separation of the long fiber fractions from a secondary fiber mixture](#)
- 2108 [4,997,010](#) [Cloth support with cloth guiding surface for close engagement with reed side walls](#)
- 2109 [4,991,771](#) [Fuel injection valve](#)
- 2110 [4,989,825](#) [Support means for supporting calender rolls](#)
- 2111 [4,989,431](#) [Rolling device](#)
- 2112 [4,988,359](#) [Fixing stem for an endoprosthesis](#)
- 2113 [4,986,512](#) [Servo piston valve](#)
- 2114 [4,984,608](#) [Tuck-in needle and a pneumatic selvedge-forming device for a loom](#)
- 2115 [4,981,621](#) [Regular packing element of thin foil-like material for mass transfer and heat exchange columns](#)
- 2116 [4,981,421](#) [Valve arrangement](#)
- 2117 [4,978,818](#) [Key for a circuit board](#)
- 2118 [4,978,355](#) [Plastic bone implant having a reinforced contact surface](#)

- 2119 [4,977,955](#)  [Heat-transfer wall composed of two plate-like parts](#)

2120 [4,977,925](#)  [Safety valve](#)

2121 [4,976,738](#)  [Porous metal overlay for an implant surface](#)

2122 [4,976,728](#)  [Reinforcement for a bone cement bed](#)

2123 [4,970,803](#)  [Method for drying sludge](#)

2124 [4,970,772](#)  [Wafer alignment fixture](#)

2125 [4,970,767](#)  [Heatable controlled deflection roll](#)

2126 [4,969,910](#)  [Acetabular cup prosthesis](#)

2127 [4,969,907](#)  [Metal bone implant](#)

2128 [4,969,904](#)  [Bone implant](#)

2129 [4,967,653](#)  [Calender having displaceable bearing parts](#)

2130 [4,966,206](#)  [Device for filling a gaseous fuel container](#)

2131 [4,963,153](#)  [Metal tibial anchoring part for a partial knee joint prosthesis](#)

2132 [4,962,796](#)  [Weft brake with damping control](#)

2133 [4,961,748](#)  [Sleeve for an acetabulum](#)

2134 [4,959,078](#)  [Hot-gas cooling plant](#)

2135 [4,959,072](#)  [Implant for strengthening the edge of a hip bone](#)

2136 [4,955,917](#)  [Prosthetic acetabulum](#)

2137 [4,955,911](#)  [Bone implant](#)

2138 [4,955,908](#)  [Metallic intervertebral prosthesis](#)

2139 [4,955,268](#)  [Apparatus containing a work surface heated with a heat carrier medium](#)

2140 [4,950,130](#)  [Pelton turbine](#)

2141 [4,948,288](#)  [Locking arrangement for a machine part on a shaft](#)

2142 [4,944,763](#)  [Fixing stem for a prosthesis](#)

2143 [4,944,761](#)  [Blade-like stem for a femoral head prosthesis](#)

2144 [4,938,772](#)  [Femoral prosthesis](#)

2145 [4,938,770](#)  [Stem for a femoral head prosthesis](#)

2146 [4,937,004](#)  [Method and apparatus for deoxidation of chlorinated water](#)

2147 [4,936,861](#)  [Acetabular cup prosthesis](#)

2148 [4,936,859](#)  [Reinforcement for anchoring a prosthesis stem](#)

2149 [4,936,355](#)  [Weft mixer for a loom](#)

2150 [4,936,327](#)  [Valve arrangement](#)

Prev. List

Next List

Top

[View Cart](#)

[Home](#)

Quick

Advanced

Pat Num

Help

USPTO PATENT FULL-TEXT AND IMAGE DATABASE[Home](#)[Quick](#)[Advanced](#)[Pat Num](#)[Help](#)[Prev. List](#)[Next List](#)[Bottom](#)[View Cart](#)*Searching US Patent Collection...***Results of Search in US Patent Collection db for:**

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Hits **2151 through 2200 out of 2889**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 2151 [4,932,969](#) Joint endoprosthesis
- 2152 [4,932,964](#) Artificial body for a prosthesis
- 2153 [4,928,354](#) Method and apparatus for removal of fiber flocks from fiber bales
- 2154 [4,927,494](#) Apparatus for preparing high-concentration alkali
- 2155 [4,924,677](#) Method and installation for cooling an apparatus
- 2156 [4,923,473](#) Hemispherical acetabulum
- 2157 [4,922,967](#) Firing device for a projectile weaving machine and projectile therefor
- 2158 [4,921,573](#) Method of regulating the specific dispersion work for waste paper stock preparation for papermaking
- 2159 [4,921,501](#) Stem for a prosthetic femoral head
- 2160 [4,920,862](#) Trunk piston compressor
- 2161 [4,920,752](#) Apparatus and process for storing hydrate-forming gaseous hydrocarbons
- 2162 [4,919,677](#) Prosthetic acetabulum
- 2163 [4,919,676](#) Metal shell for an artificial hip joint socket
- 2164 [4,919,675](#) Hemispherical prosthetic acetabulum
- 2165 [4,919,673](#) Prosthesis for a femoral head
- 2166 [4,919,671](#) Metal anchoring part for a knee joint endoprosthesis
- 2167 [4,919,666](#) Implant having recesses for therapeutically effective substances
- 2168 [4,919,541](#) Gas-liquid mass transfer apparatus and method
- 2169 [4,917,935](#) Ceramic packing
- 2170 [4,917,704](#) Intervertebral prosthesis

- 2171 [4,915,789](#) T [Apparatus for adjusting a diaphragm blade](#)

2172 [4,915,144](#) T [Delivering yarns with an excess length from a yarn store in an air jet multicolor loom](#)

2173 [4,913,400](#) T [Double disk gate valve](#)

2174 [4,909,900](#) T [Method for high temperature, high consistency quick bleaching of raw paper pulp](#)

2175 [4,908,035](#) T [Prosthesis for a hip joint](#)

2176 [4,908,033](#) T [Hip joint acetabulum](#)

2177 [4,908,013](#) T [Holder for a vein segment and method of removing cells from a vein segment](#)

2178 [4,906,336](#) T [Headbox device for a papermaking machine](#)

2179 [4,903,496](#) T [Plant and method for periodic charging and discharging of a gas reservoir](#)

2180 [4,902,418](#) T [Element having a porous wall](#)

2181 [4,901,769](#) T [Tuck-in needle for a selvage forming device](#)

2182 [4,900,440](#) T [Dynamic pressure filter](#)

2183 [4,899,788](#) T [Apparatus for removing a faulty weft yarn from a weaving shed](#)

2184 [4,898,643](#) T [Headbox control apparatus for a papermaking machine](#)

2185 [4,897,158](#) T [Headbox apparatus for a papermaking machine](#)

2186 [4,892,548](#) T [Joint socket](#)

2187 [4,892,119](#) T [Changing cloth beams in a weaving mill](#)

2188 [4,891,100](#) T [Apparatus for retaining a partition foil](#)

2189 [4,890,551](#) T [Apparatus for guiding the rolls of an essentially vertical calender](#)

2190 [4,889,627](#) T [Pusher centrifuge](#)

2191 [4,888,094](#) T [Method of operating a headbox apparatus for a papermaking machine](#)

2192 [4,888,020](#) T [Femur for a knee joint prosthesis](#)

2193 [4,887,649](#) T [Weft bobbin changer for a loom](#)

2194 [4,884,409](#) T [Method and apparatus of cooling a toroidal ring magnet](#)

2195 [4,883,492](#) T [Metal bone implant](#)

2196 [4,883,098](#) T [Projectile opener and lift for a projectile loom](#)

2197 [4,881,404](#) T [Diesel engine simulator and a method of adjusting the dynamic running characteristics of a diesel engine](#)

2198 [4,878,923](#) T [Apparatus for removing oil from a compressed gas flow](#)

2199 [4,875,506](#) T [Yarn brake for a weft yarn](#)

2200 [4,872,487](#) T [Projectile-catching brake for a loom](#)

[[Prev.](#), [List](#)]

Next List

Top

[View Cart](#)

Home

Quick

Advanced

Part Num

Help

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AN/Sulzer: 2889 patents.

Hits 2201 through 2250 out of 2889

[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

PAT. NO.**Title**

- 2201 [4,871,368](#) [Artifical acetabulum](#)
- 2202 [4,871,124](#) [Method of winding fabric onto a cloth beam and a transporter therefor](#)
- 2203 [4,866,281](#) [Irradiation plant](#)
- 2204 [4,865,082](#) [Pacing motion for a textile machine](#)
- 2205 [4,864,703](#) [Press roll](#)
- 2206 [4,863,471](#) [Crucial ligament replacement for a knee joint](#)
- 2207 [4,858,292](#) [Controlled deflection roll](#)
- 2208 [4,856,156](#) [Roll arrangement containing a controlled deflection roll](#)
- 2209 [4,855,089](#) [Distributor for distributing liquid in an exchange column](#)
- 2210 [4,854,716](#) [Device for processing bone cement](#)
- 2211 [4,852,618](#) [Weft yarn selector for a loom](#)
- 2212 [4,852,617](#) [Weft yarn store](#)
- 2213 [4,851,757](#) [Method and system for reducing at least one frequency component of a periodic pulsation](#)
- 2214 [4,850,544](#) [Yarn metering bobbin](#)
- 2215 [4,850,401](#) [Weft yarn store and an electromagnetic yarn clamp therefor](#)
- 2216 [4,850,400](#) [Weft yarn store with automatic yarn measurement](#)
- 2217 [4,846,232](#) [Gripper projectile](#)
- 2218 [4,843,993](#) [Ship having a stern screw and a method of operating the ship](#)
- 2219 [4,834,759](#) [Endoprosthesis for a hip joint](#)
- 2220 [4,834,055](#) [Fuel injection system](#)
- 2221 [4,832,089](#) [Projectile-catching brake for a loom](#)
- 2222 [4,830,707](#) [Method and apparatus for preparing high-concentration alkali](#)

- 2223 [4,828,566](#) **T** [Hip joint implant](#)
- 2224 [4,827,975](#) **T** [Valve](#)
- 2225 [4,825,842](#) **T** [Fuel injection system](#)
- 2226 [4,825,654](#) **T** [Steam plant and method of controlling same](#)
- 2227 [4,824,524](#) **T** [Multi-ply headbox for a papermaking machine](#)
- 2228 [4,823,690](#) **T** [Roll calender with Nip relieving devices](#)
- 2229 [4,822,367](#) **T** [Endoprosthesis for a hip joint socket](#)
- 2230 [4,819,881](#) **T** [Refiner for processing a fiber stock suspension for paper fabrication](#)
- 2231 [4,817,676](#) **T** [Loom shedding motion](#)
- 2232 [4,815,183](#) **T** [Controlled deflection roll](#)
- 2233 [4,813,960](#) **T** [Endoprosthesis for a hip joint socket](#)
- 2234 [4,813,225](#) **T** [Chain for use in device for preventing rupturing of a pipeline](#)
- 2235 [4,812,619](#) **T** [Electrode boiler and an insulator therefor](#)
- 2236 [4,812,618](#) **T** [Electrode boiler and an insulator therefor](#)
- 2237 [4,812,236](#) **T** [Metal microfilter](#)
- 2238 [4,811,762](#) **T** [Weft yarn store for a loom](#)
- 2239 [4,807,670](#) **T** [Giver for a gripper loom](#)
- 2240 [4,804,382](#) **T** [Artificial vessel](#)
- 2241 [4,804,381](#) **T** [Artificial vessel](#)
- 2242 [4,801,379](#) **T** [Microfilter foil and method of producing same](#)
- 2243 [4,800,639](#) **T** [Method of making a metal bone implant](#)
- 2244 [4,799,517](#) **T** [Weft yarn store for a loom](#)
- 2245 [4,799,516](#) **T** [Weft yarn feed for a weaving loom](#)
- 2246 [4,798,930](#) **T** [Process for producing a weld-built member](#)
- 2247 [4,798,064](#) **T** [Cam segment for a knitting machine](#)
- 2248 [4,795,466](#) **T** [Artificial crucial ligament for a knee joint](#)
- 2249 [4,793,335](#) **T** [Bone implant for fixing artificial tendons or ligaments with application and extraction means](#)
- 2250 [4,789,027](#) **T** [Ribbed heat exchanger](#)

| | | | | |
|----------------------------|---------------------------|--------------------------|---------------------------|----------------------|
| Prev. List | Next List | Top | View Cart | |
| Home | Quick | Advanced | Pat Num | Help |

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AN/Sulzer: 2889 patents.

Hits **2251 through 2300 out of 2889**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 2251 [4,788,030](#) Storage rack for nuclear fuel elements
- 2252 [4,787,909](#) Shank for a femur head prosthesis
- 2253 [4,785,855](#) Weft yarn store for looms having a braking device
- 2254 [4,785,775](#) Wear layer for piston and cylinder of an internal combustion engine
- 2255 [4,784,764](#) Arrangement for the flocculation of flocculatable substances in suspensions, particularly for the purification of the backwater of deinking installations for waste paper processing
- 2256 [4,784,662](#) Artificial hip joint
- 2257 [4,784,219](#) Heat exchanger
- 2258 [4,784,188](#) Air jet weaving machine
- 2259 [4,782,857](#) Method and apparatus for uniformly distributing solids-containing liquid
- 2260 [4,782,793](#) Fossil-fuel fired vapor generator
- 2261 [4,781,225](#) Weft yarn store for a loom
- 2262 [4,781,025](#) Apparatus for the hydraulic transmission of mechanical power and for the simultaneous multiplication of the speed of rotation
- 2263 [4,780,066](#) Centrifugal pump having a magnetic coupling
- 2264 [4,778,334](#) Centrifugal pump
- 2265 [4,777,942](#) Bone milling instrument
- 2266 [4,777,935](#) Receiver for solar energy
- 2267 [4,776,328](#) Bone nail and an instrument for implanting a bone nail
- 2268 [4,776,177](#) Method of fluid component separation by crystallization, and crystallization separating apparatus

- 2269 [4,773,824](#) [Rotor of a wind power installation](#)
- 2270 [4,771,815](#) [Apparatus for weft insertion in a ribbon gripper loom](#)
- 2271 [4,771,524](#) [Roll having a hard envelope surface](#)
- 2272 [4,770,745](#) [Front wall and support arrangement at the headbox of a papermaking machine](#)
- 2273 [4,770,213](#) [Coupling device for coupling a heald frame to a lifter of a loom](#)
- 2274 [4,769,041](#) [Hip joint socket](#)
- 2275 [4,769,039](#) [Tibial implant for a knee prosthesis](#)
- 2276 [4,768,470](#) [Gas cooler for synthesis gas](#)
- 2277 [4,765,394](#) [Heat exchanger with a soot blower](#)
- 2278 [4,765,156](#) [Circular knitting machine for producing knit goods with combed-in fibers](#)
- 2279 [4,762,536](#) [Adsorber for cleaning gases](#)
- 2280 [4,760,716](#) [Method and circular knitting machine for producing knit goods with combed-in fibers](#)
- 2281 [4,759,910](#) [Distributor for a liquid-liquid extraction or reaction column](#)
- 2282 [4,758,169](#) [Injection valve for reciprocating internal combustion engine](#)
- 2283 [4,758,098](#) [Static mixing device for fluids containing or consisting of solid particles](#)
- 2284 [4,757,842](#) [Loom frame](#)
- 2285 [4,757,794](#) [Injection system for a valve of a diesel engine](#)
- 2286 [4,754,784](#) [Loom having a supporting and adjusting device for warp yarn guidance](#)
- 2287 [4,754,733](#) [Fuel injection device for reciprocating internal combustion engine](#)
- 2288 [4,752,295](#) [Metal bone implant](#)
- 2289 [4,749,480](#) [Reaction vessel](#)
- 2290 [4,749,394](#) [Method and apparatus for freeze drying](#)
- 2291 [4,748,949](#) [Method and system for injecting a pilot fuel into a combustion chamber](#)
- 2292 [4,748,810](#) [Hydromechanical torque transmission device](#)
- 2293 [4,746,093](#) [Piloted valve](#)
- 2294 [4,745,914](#) [Medullary cavity barrier](#)
- 2295 [4,744,928](#) [Regular packing for countercurrent mass and direct heat transfer columns](#)
- 2296 [4,744,394](#) [Weft yarn store for looms](#)
- 2297 [4,739,805](#) [Rapier for a shuttleless loom](#)
- 2298 [4,736,777](#) [Rapier for a shuttleless loom](#)
- 2299 [4,736,678](#) [Apparatus for selectively positioning rolls in a calender roll stack](#)
- 2300 [4,734,116](#) [Method and apparatus for generating an ice crystal suspension](#)

[Prev. List](#) [Next List](#) [Top](#) [View Cart](#)

[Home](#) [Quick](#) [Advanced](#) [Pat Num](#) [Help](#)

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AN/Sulzer: 2889 patents.

Hits 2301 through 2350 out of 2889[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 2301 [4,732,178](#) Loom
- 2302 [4,731,280](#) Ribbed article and method of making a ribbed article
- 2303 [4,731,229](#) Reactor and packing element for catalyzed chemical reactions
- 2304 [4,731,054](#) Medical repository probe
- 2305 [4,730,644](#) Loom
- 2306 [4,729,411](#) Air jet weaving machine
- 2307 [4,728,329](#) Prosthetic band
- 2308 [4,726,691](#) Hydrostatic support arrangement
- 2309 [4,726,323](#) Solid fuel fired vapor generator
- 2310 [4,722,369](#) Take-up device for the cloth beam of a textile machine
- 2311 [4,721,154](#) Method of, and apparatus for, the continuous casting of rapidly solidifying material
- 2312 [4,721,039](#) Method and control apparatus for separating the rolls of a calender
- 2313 [4,720,375](#) Process for producing magnesium oxide
- 2314 [4,718,916](#) Femur head prosthesis
- 2315 [4,718,914](#) Metal bone implant
- 2316 [4,717,317](#) Reciprocating pump
- 2317 [4,716,940](#) Safeguard device for a weaving machine
- 2318 [4,716,737](#) Apparatus and process for vaporizing a liquified hydrocarbon
- 2319 [4,715,410](#) Weaving loom
- 2320 [4,714,522](#) Device for decelerating fast-flow currents of white water
- 2321 [4,709,571](#) Method of operating a controlled deflection roll and a rolling mill equipped with at least one

controlled deflection roll

- 2322 4,706,716 T Heald frame for a weaving loom

2323 4,706,714 T Mounting arrangement for a switching unit for a loom

2324 4,705,602 T Hydraulic pressing shoe with an adjustable circumferential press zone

2325 4,704,879 T Treatment machine with rotatable treatment drum

2326 4,704,363 T Fermentation system

2327 4,704,128 T Anchoring shank for an endoprosthesis

2328 4,703,772 T Disk valve for a reciprocating compressor

2329 4,702,306 T Apparatus for controlling a process variable of a flowing medium

2330 4,701,103 T Turbomachine housing

2331 4,700,925 T Pressure medium operated servomotor arrangement

2332 4,700,772 T Heat exchanger system

2333 4,699,180 T Vibration damping mounting for a weaving machine

2334 4,697,619 T Solenoid valve having a power amplifier

2335 4,696,791 T Nuclear reactor installation

2336 4,693,176 T Air outlet for room conditioning systems

2337 4,693,069 T Doubling machine

2338 4,692,030 T Static mixing device for viscous melts

2339 4,690,600 T Threaded connection having multi-part threaded bolt

2340 4,688,404 T Electromagnetic patterning system on a knitting machine

2341 4,687,052 T Support system for coiled tube bunch of a heat exchanger

2342 4,686,077 T Nuclear reactor installation

2343 4,683,872 T Receiver for solar energy

2344 4,682,633 T Device for screening fluff from entering a shed

2345 4,681,129 T Apparatus for uniformly distributing a two-phase mixture

2346 4,681,029 T Apparatus for treating soybeans

2347 4,678,648 T Method and apparatus for selective absorption of hydrogen sulphide from gas streams containing hydrogen sulphide and carbon dioxide

2348 4,674,448 T Fuel injection system for a multi-cylinder reciprocating internal combustion engine

2349 4,669,514 T Air jet weaving machine and weft insertion nozzle arrangement in such air jet weaving machine

2350 4,669,513 T Guide for a picking element in a weaving machine

[Prev. List](#) [Next List](#) [Top](#) [View Cart](#)

[Next List](#)

Top

[View Cart](#)

Home

Quick

Advanced

Pat Num

Help

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Searching US Patent Collection...

Results of Search in US Patent Collection db for:

AN/Sulzer: 2889 patents.

Hits 2351 through 2400 out of 2889

[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

PAT. NO.**Title**

- 2351 [4,669,512](#) T Brake for a projectile in a weaving machine
- 2352 [4,669,511](#) T Projectile brake for a weaving machine
- 2353 [4,667,706](#) T Apparatus and method for storing filamentous material for use in a weaving machine
- 2354 [4,667,705](#) T Weft change system with a weaving machine
- 2355 [4,666,449](#) T Hip joint socket
- 2356 [4,665,950](#) T Medium-carrying line having at least one restrictor
- 2357 [4,664,150](#) T Changeover valve for controlling the throughflow of a pressure medium
- 2358 [4,662,992](#) T Twin-wire papermaking machine and method of dewatering a paper web in a twin-wire papermaking machine
- 2359 [4,662,315](#) T Fuel injection system for a combustion chamber of a reciprocating internal combustion engine
- 2360 [4,661,206](#) T Wet press for dewatering a material web with plural pressure pockets and unsymmetrical arrangement
- 2361 [4,661,112](#) T Hip joint prosthesis
- 2362 [4,660,756](#) T Method and apparatus for producing a substantially cylindrical hollow article
- 2363 [4,658,621](#) T Rolling apparatus
- 2364 [4,658,012](#) T Process for purifying chlorinated aliphatic polymers
- 2365 [4,655,260](#) T Shuttle projectile for a weaving machine
- 2366 [4,655,259](#) T Lamella for a picking comb of a weaving rotor
- 2367 [4,655,258](#) T Cleaning apparatus for textile machine
- 2368 [4,653,547](#) T Guide for parts of a weaving machine
- 2369 [4,653,545](#) T Projectile guide for a weaving machine
- T

- 2370 [4,651,786](#) [Yarn metering device](#)
- 2371 [4,650,503](#) [T Phase distribution tank](#)
- 2372 [4,649,965](#) [T Picking arrangement for a weaving machine](#)
- 2373 [4,648,635](#) [T Bayonet coupling for hollow cylindrical members](#)
- 2374 [4,646,790](#) [T Cutting mechanism for a weaving machine](#)
- 2375 [4,644,979](#) [T Heddle drive for a weaving machine](#)
- 2376 [4,644,975](#) [T Device for preventing rupturing of a pipeline](#)
- 2377 [4,643,369](#) [T Storage device for filamentary material](#)
- 2378 [4,640,667](#) [T Apparatus for conveying and compressing a gaseous medium](#)
- 2379 [4,640,318](#) [T Catcher for a weaving machine](#)
- 2380 [4,640,315](#) [T Projectile weaving machine](#)
- 2381 [4,640,088](#) [T Automat location system](#)
- 2382 [4,637,437](#) [T Brake for a weaving machine](#)
- 2383 [4,637,212](#) [T Combined hot air turbine and steam power plant](#)
- 2384 [4,635,684](#) [T Torsion bar mounting for a projectile weaving machine](#)
- 2385 [4,633,917](#) [T Weft thread storage device for a weaving machine](#)
- 2386 [4,632,153](#) [T Picking band wheel for a weaving machine](#)
- 2387 [4,630,738](#) [T Rack for storing nuclear fuel elements](#)
- 2388 [4,628,968](#) [T Guide for a weft-picking element](#)
- 2389 [4,625,769](#) [T Guide device for a weft picking element and a method of making same](#)
- 2390 [4,625,517](#) [T Thermoacoustic device](#)
- 2391 [4,623,454](#) [T Mass transfer column](#)
- 2392 [4,623,007](#) [T Device for metering weft yarn](#)
- 2393 [4,620,926](#) [T Flotation apparatus for flotation of fibrous stock suspension recovered from waste paper](#)
- 2394 [4,620,348](#) [T Controlled deflection roll](#)
- 2395 [4,616,477](#) [T Pneumatic servomotor](#)
- 2396 [4,614,209](#) [T Weaving rotor for multiple longitudinal traversing shed weaving machines](#)
- 2397 [4,612,898](#) [T Cylinder head for a piston internal combustion engine](#)
- 2398 [4,612,490](#) [T Method and system of braking and asynchronous motor](#)
- 2399 [4,611,479](#) [T Method and apparatus for rolling metal foils](#)
- 2400 [RE32,241](#) [T Fractional crystallization process](#)

| | | | | |
|----------------------------|---------------------------|--------------------------|---------------------------|----------------------|
| Prev. List | Next List | Top | View Cart | |
| Home | Quick | Advanced | Pat Num | Help |

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Hits **2401 through 2450 out of 2889**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 2401 [4,610,617](#) Heat insulating protective shields for two-roll calender with heated rolls
- 2402 [4,606,744](#) Method and apparatus for liquefying a low-boiling gas
- 2403 [4,605,366](#) Calender for pressure and thermal treatment of material webs
- 2404 [4,603,710](#) Non-return valve
- 2405 [4,601,314](#) Method and apparatus for operating a weaving machine
- 2406 [4,599,974](#) Combustion chamber for a vapor generator
- 2407 [4,597,275](#) Calender
- 2408 [4,595,089](#) Weaving machine
- 2409 [4,593,724](#) Guide for a weft-picking projectile in a weaving machine
- 2410 [4,592,393](#) Weft thread preparation device
- 2411 [4,589,627](#) Pressure medium actuated valve
- 2412 [4,589,450](#) Leno attachment for a weaving machine
- 2413 [4,587,998](#) Filling-thread insertion gripper for a rapier weaving machine
- 2414 [4,587,996](#) Weft yarn control for a weaving machine rotor
- 2415 [4,587,995](#) Vibration-insulating and vibration-damping suspension for a weaving machine
- 2416 [4,587,111](#) Method of liquid-liquid extraction of gallium from a basic aqueous solution
- 2417 [4,586,542](#) Return device for the projectile of a gripper projectile weaving machine
- 2418 [4,586,541](#) Weaving rotor
- 2419 [4,585,038](#) Auxiliary blow nozzle for a pneumatic weaving machine
- 2420 [4,584,840](#) Cooling machine or heat pump
- 2421 [4,583,273](#) Controlled deflection roll

- 2422 [4,581,797](#) Controlled deflection roll
- 2423 [4,577,666](#) Weft yarn tensioning device
- 2424 [4,577,091](#) Tray electrode arrangement for an electrical steam or hot water generator
- 2425 [4,576,208](#) Weft severing device for a weaving machine
- 2426 [4,576,152](#) Injector for bone cement
- 2427 [4,576,120](#) Heat exchanger
- 2428 [4,575,613](#) Electrical steam generator
- 2429 [4,573,856](#) Apparatus for logistical operations with textile machinery
- 2430 [4,572,245](#) Electrothermal fabric melt cutter for a weaving machine
- 2431 [4,570,683](#) Yarn holding device
- 2432 [4,570,682](#) System for conditioning textile material in a weaving machine
- 2433 [4,569,761](#) Centrifuge sieve and method of producing the same
- 2434 [4,569,373](#) Terrycloth weaving machine
- 2435 [4,567,015](#) Frame for storing nuclear fuel elements
- 2436 [4,566,497](#) Air discharge device for a weaving machine
- 2437 [4,566,273](#) Pneumatic servomotor
- 2438 [4,565,225](#) Weaving machine
- 2439 [4,565,216](#) Device for gravimetric distribution of liquid for mass and heat transfer columns
- 2440 [4,564,515](#) Method for separating at least one heavy isotope from a hydrogen-containing medium
- 2441 [4,563,884](#) Circular knitting machine for the production of goods with enmeshed fibers
- 2442 [4,563,843](#) Heat insulation window
- 2443 [4,563,204](#) Method and apparatus for withdrawing a bottom product from a low-temperature rectifying column
- 2444 [4,561,831](#) Rotary hydraulic axially slidable vane device of variable capacity
- 2445 [4,559,792](#) Thread carrier
- 2446 [4,558,986](#) Control mechanism for the stator vanes of an axial turbine device
- 2447 [4,557,877](#) Liquid distributor for an exchange column
- 2448 [4,556,454](#) Wet press for dewatering a web of material
- 2449 [4,552,330](#) Pressure medium actuated valve
- 2450 [4,552,211](#) Heat exchanger with convection suppressing longitudinal baffles

| | | | | |
|----------------------------|---------------------------|--------------------------|---------------------------|----------------------|
| Prev. List | Next List | Top | View Cart | |
| Home | Quick | Advanced | Pat Num | Help |

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Results of Search in US Patent Collection db for:

AN/Sulzer: 2889 patents.

Hits 2451 through 2500 out of 2889

[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 2451 [4,552,187](#) [Weaving machine](#)
 2452 [4,552,008](#) [Rolling mill for sheet material](#)
 2453 [4,551,204](#) [Headbox for a papermaking machine](#)
 2454 [4,549,582](#) [Apparatus for removing severed fabric parts from a weaving machine](#)
 2455 [4,547,197](#) [Treatment of brine elutriate](#)
 2456 [4,546,801](#) [Warp let-off control device for weaving machines](#)
 2457 [4,546,799](#) [Device for cleaning the weft insertion area of a weaving machine](#)
 2458 [4,546,731](#) [Heat exchanger having a gas flue](#)
 2459 [4,546,622](#) [Circular knitting machine for producing knit goods having enmeshed fibers](#)
 2460 [4,545,726](#) [Turbine](#)
 2461 [4,545,160](#) [Window](#)
 2462 [4,542,769](#) [Coupling arrangement for controlling the harnesses in a weaving machine](#)
 2463 [4,539,826](#) [Knitting machine](#)
 2464 [4,537,284](#) [Lubricant distributor](#)
 2465 [4,537,156](#) [Heat exchanger having a vertical gas flue](#)
 2466 [4,535,817](#) [Drive for an oscillatory mechanical system](#)
 2467 [4,535,727](#) [Heat exchanger with adjustable platform for cleaning and repairing](#)
 2468 [4,534,386](#) [Tensioning beam assembly for a weaving machine](#)
 2469 [4,532,965](#) [Weft yarn picking channel](#)
 2470 [4,532,964](#) [Method of operating an air nozzle weaving machine](#)
 2471 [4,532,860](#) [Apparatus for collecting waste from a textile machine](#)

- 2472 [4,532,086](#) [Packing made of one-piece layers](#)
- 2473 [4,531,553](#) [Multiple longitudinal traversing shed weaving machine containing a weaving rotor](#)
- 2474 [4,531,243](#) [Artificial hip joint socket](#)
- 2475 [4,530,227](#) [Hydrostatic support member, particularly for rolling mills, and method of using the same](#)
- 2476 [4,530,116](#) [Anchoring shank for a bone implant](#)
- 2477 [4,528,702](#) [Joint endoprosthesis](#)
- 2478 [4,527,598](#) [Control apparatus for a weaving machine](#)
- 2479 [4,527,596](#) [Method and apparatus for cleaning the reed of a weaving machine](#)
- 2480 [4,524,727](#) [Heat exchanger](#)
- 2481 [4,523,587](#) [Retention device for centering an endoprosthesis shank in a bone](#)
- 2482 [4,520,851](#) [Gripper for inserting the weft in a rapier weaving machine](#)
- 2483 [4,519,899](#) [Purification of oil using a jet pump mixer](#)
- 2484 [4,519,272](#) [Transmission having a constant torque ratio output at a variable speed ratio output](#)
- 2485 [4,519,101](#) [Joint socket](#)
- 2486 [4,518,019](#) [Lubricator for a weft picking element in a weaving machine](#)
- 2487 [4,516,750](#) [Means for suspending pipework](#)
- 2488 [4,513,943](#) [Pressure medium actuated servo-motor system](#)
- 2489 [4,513,792](#) [Weft yarn tensioning device](#)
- 2490 [4,513,464](#) [Method for controlling the acceleration of a centrifuging device](#)
- 2491 [4,512,374](#) [Lamellae comb for weaving apparatus, particularly for a weaving rotor in a multiple longitudinal traversing shed weaving loom, and method for manufacturing the same](#)
- 2492 [4,509,925](#) [Marine vessel propeller with nozzle](#)
- 2493 [4,508,690](#) [Method of producing very pure magnesium oxide](#)
- 2494 [4,508,146](#) [Gripper projectile for a weaving machine](#)
- 2495 [4,505,306](#) [Air distributor and control unit for a jet insertion weaving machine](#)
- 2496 [4,505,186](#) [Lubricant monitoring system](#)
- 2497 [4,504,460](#) [Method and plant for obtaining deuterium-enriched water](#)
- 2498 [4,503,928](#) [Hydraulic motor and hydrostatic power transmission using such motor](#)
- 2499 [4,498,501](#) [Multiple longitudinal traversing shed weaving machine containing a weaving rotor](#)
- 2500 [4,497,753](#) [Corrugated sheet packing and method of making](#)

| | | | | |
|----------------------------|---------------------------|--------------------------|---------------------------|----------------------|
| Prev. List | Next List | Top | View Cart | |
| Home | Quick | Advanced | Pat Num | Help |

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Hits **2501** through **2550** out of **2889**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 2501 [4,497,752](#) X-Shaped packing layers and method of making
- 2502 [4,497,751](#) Zig-zag profile packing and method of making
- 2503 [4,497,450](#) Filament winding machine
- 2504 [4,497,346](#) Clutch arrangement for controlling a heddle of a weaving machine
- 2505 [4,496,498](#) Statistical packing
- 2506 [4,494,484](#) Heat exchanger for a process gas
- 2507 [4,493,769](#) Twin pusher centrifuge
- 2508 [4,493,768](#) Twin pusher centrifuge including rotatable pusher
- 2509 [4,493,735](#) Device and method for forming a fluidized bed
- 2510 [4,493,291](#) Gas cooler arrangement
- 2511 [4,492,541](#) Rotary electrohydraulic device with axially sliding vanes
- 2512 [4,492,255](#) Apparatus for guiding a fluid medium driven weft thread in the shed of a weaving machine and use of the apparatus at a multiple longitudinal traversing shed weaving machine
- 2513 [4,492,254](#) Apparatus for guiding a fluid medium driven weft thread in the shed of a weaving machine and use of the apparatus at a multiple longitudinal traversing shed weaving machine
- 2514 [4,491,158](#) Gripper clamp projectile
- 2515 [4,490,836](#) Shut-off valve
- 2516 [4,488,579](#) Gripper projectile
- 2517 [4,487,611](#) Gas cooler for a synthetic gas
- 2518 [4,487,233](#) Multiple longitudinal traversing shed weaving loom
- 2519 [4,485,848](#) Terry weaving machine having a deflecting mechanism for warp yarns
-

- 2520 [4,484,603](#) [Serial shed weaving machine with a weaving rotor](#)
- 2521 [4,483,372](#) [Tensioning apparatus for a whip roll of a weaving machine](#)
- 2522 [4,481,790](#) [Cooling system](#)
- 2523 [4,480,452](#) [Rolling mill](#)
- 2524 [4,475,575](#) [Catching mechanism for a weaving machine](#)
- 2525 [4,474,592](#) [Apparatus for producing liquid para-hydrogen](#)
- 2526 [4,474,141](#) [Heat exchanger for cooling a hot gas](#)
- 2527 [4,469,599](#) [Apparatus and method for denitrifying water](#)
- 2528 [4,469,474](#) [Axially slidable vane motor with valves in fluid-based vanes](#)
- 2529 [4,466,576](#) [Metering drum for filamentary material](#)
- 2530 [4,465,027](#) [Exhaust gas vapor generator](#)
- 2531 [4,464,912](#) [Knitting machine](#)
- 2532 [4,463,781](#) [Pick-finding device for a weaving machine](#)
- 2533 [4,462,206](#) [Gas turbine-steam power plant](#)
- 2534 [4,460,021](#) [Catcher and a method of operating a gripper projectile catcher](#)
- 2535 [4,458,726](#) [Apparatus for controlling weft picking](#)
- 2536 [4,458,506](#) [Circular knitting or circular hosiery knitting machine for manufacture of knit wares of hosiery with combed-in fibers](#)
- 2537 [4,457,344](#) [Reed for a weaving machine](#)
- 2538 [4,456,057](#) [Soot blower](#)
- 2539 [4,455,339](#) [Packing for an exchange column](#)
- 2540 [4,452,053](#) [Stamped knitting-tool for knitting machines](#)
- 2541 [4,450,875](#) [Control device for the nozzles of a jet insertion power loom](#)
- 2542 [4,450,592](#) [Joint socket for a hip joint prosthesis](#)
- 2543 [4,448,285](#) [Lubricator for a power loom](#)
- 2544 [4,447,915](#) [Expandable medullary canal plug](#)
- 2545 [4,445,546](#) [Method of operating a weaving machine](#)
- 2546 [4,444,154](#) [Steam generator with fluidized bed firing](#)
- 2547 [4,442,870](#) [Brake for a gripper projectile of a weaving machine](#)
- 2548 [4,441,528](#) [Clutch arrangement for controlling the heddles of a weaving machine](#)
- 2549 [4,434,817](#) [Edge yarn clamp for a weaving machine](#)
- 2550 [4,433,722](#) [Heat exchanger having pipe coils supported in support plates](#)

[Prev. List](#) [Next List](#) [Top](#) [View Cart](#)

[Home](#) [Quick](#) [Advanced](#) [Pat Num](#) [Help](#)

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Results of Search in US Patent Collection db for:

AN/Sulzer: 2889 patents.

Hits 2551 through 2600 out of 2889

[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

PAT. NO.**Title**

- 2551 [4,433,721](#) T [Spacer grid for supporting rod-shaped members](#)
- 2552 [4,432,174](#) T [Self-supporting insulation element](#)
- 2553 [4,431,036](#) T [Mechanism for braking a weft yarn in a weaving machine](#)
- 2554 [4,430,962](#) T [Forced flow vapor generator plant](#)
- 2555 [4,430,761](#) T [Joint endoprosthesis](#)
- 2556 [4,428,329](#) T [Steam generator support structure](#)
- 2557 [4,427,605](#) T [Tray device for collecting and distributing liquid for a counter-current column](#)
- 2558 [4,427,552](#) T [Method of automatically controlling a continuously operating pressure filter](#)
- 2559 [4,427,035](#) T [Clutch arrangement for a heddle of a weaving machine](#)
- 2560 [4,426,370](#) T [Method for the preparation of deuterium-enriched water in the preparation of hydrogen](#)
- 2561 [4,425,088](#) T [Vane-stator bottom assembly for rotary hydraulic devices](#)
- 2562 [4,422,482](#) T [Guide tooth for a weaving machine](#)
- 2563 [4,422,187](#) T [Shank for a joint endoprosthesis](#)
- 2564 [4,422,025](#) T [Control circuit](#)
- 2565 [4,418,652](#) T [Steam generator having a superheater tube bank](#)
- 2566 [4,415,966](#) T [Control circuit for a controller and a method of operating the same](#)
- 2567 [4,415,010](#) T [Retractor apparatus for a weft-inserting projectile in a weaving machine](#)
- 2568 [4,414,195](#) T [Method for the preparation of deuterium-enriched water](#)
- 2569 [4,412,671](#) T [Plate valve](#)
- 2570 [4,410,018](#) T [Nozzle structure for a weaving machine](#)
- 2571 [4,408,148](#) T [Controller for a lockable servo motor](#)
- 2572 [4,404,993](#) T [Clutch arrangement for controlling a heddle of a weaving machine](#)

- 2573 [4,404,693](#) T [Shank for a hip joint prosthesis](#)
- 2574 [4,403,634](#) T [Weft yarn storage device for weaving machines](#)
- 2575 [4,393,752](#) T [Piston compressor](#)
- 2576 [4,386,683](#) T [Brake for a weaving machine](#)
- 2577 [4,385,501](#) T [Hot gas cooler](#)
- 2578 [4,382,455](#) T [Multiple pick system for a weaving machine](#)
- 2579 [4,381,801](#) T [Thermal insulation for pipes and method for fabricating the same](#)
- 2580 [4,381,735](#) T [Cradle system for a steam generator](#)
- 2581 [4,376,653](#) T [Process for the production of nickel, high-purity magnesium oxide and cement](#)
- 2582 [4,371,009](#) T [Weft yarn accumulator](#)
- 2583 [4,370,230](#) T [Drainpipe for a reversible drainpipe filter system](#)
- 2584 [4,370,172](#) T [Controlled vortex pump feed for supplying cellulose-containing material to reaction vessel](#)
- 2585 [4,367,772](#) T [Nozzle assembly for a weaving machine](#)
- 2586 [4,366,845](#) T [Nozzle assembly](#)
- 2587 [4,366,833](#) T [Steam throttle valve](#)
- 2588 [4,365,652](#) T [Crossing thread supply system for a weaving machine](#)
- 2589 [4,365,478](#) T [Support for a spherical tank](#)
- 2590 [4,364,246](#) T [Knitting machine](#)
- 2591 [4,364,245](#) T [Knitting machine](#)
- 2592 [4,364,243](#) T [Circular knitting machine for the production of high pile fabrics having combed-in fibers](#)
- 2593 [4,362,083](#) T [Casing for an armoured vehicle](#)
- 2594 [4,359,785](#) T [Hip joint prosthesis](#)
- 2595 [4,358,940](#) T [Pattern mechanism for a warp knitting machine](#)
- 2596 [4,358,939](#) T [Raschel warp knitting machine](#)
- 2597 [4,356,062](#) T [Rack for storing bundles of nuclear fuel elements](#)
- 2598 [4,354,530](#) T [Crossing thread supply system for a weaving machine](#)
- 2599 [4,348,352](#) T [Rack for intermediate storage of nuclear reactor fuel element bundles](#)
- 2600 [4,347,810](#) T [Combustion chamber wall](#)

| | | | | |
|----------------------------|---------------------------|--------------------------|---------------------------|----------------------|
| Prev. List | Next List | Top | View Cart | |
| Home | Quick | Advanced | Pat Num | Help |

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AN/Sulzer: 2889 patents.

Hits 2601 through 2650 out of 2889[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 2601 [4,345,446](#) Circular knitting machine for producing high pile fabric having combed-in fibres
- 2602 [4,345,339](#) Biologically implantable member for a tendon and/or ligament
- 2603 [4,338,973](#) Catch mechanism for a weaving machine
- 2604 [4,338,799](#) Thread guidance system
- 2605 [4,337,689](#) Safety system for a double acting servomotor
- 2606 [4,334,398](#) Insulating element for a multi-paned window
- 2607 [4,333,501](#) Weaving machine having a rigid frame
- 2608 [4,332,136](#) Refrigerating apparatus
- 2609 [4,331,223](#) Electrohydraulic rotary brake
- 2610 [4,331,009](#) Jacquard attachment for a warp knitting machine
- 2611 [4,330,018](#) Shuttle return conveyor mechanism
- 2612 [4,328,739](#) Hydrostatic piston machine
- 2613 [4,326,956](#) Backwashable filter system
- 2614 [4,325,520](#) Apparatus for storing filamentary material
- 2615 [4,325,328](#) Vapor generator having a pair of combustion chambers
- 2616 [4,321,951](#) Warp yarn stop motion
- 2617 [4,320,786](#) Measuring device for thread and a method of adjusting the length of a travelling thread
- 2618 [4,320,784](#) Mounting for a tension beam
- 2619 [4,319,469](#) Pattern mechanism for a warp knitting machine
- 2620 [4,319,468](#) Raschel machine
- 2621 [4,318,428](#) Warp beam

- 2622 [4,317,702](#) T [Rack for storing fuel assembly clusters in a water pit](#)

2623 [4,317,342](#) T [Slide frame for a warp knitting machine](#)

2624 [4,315,529](#) T [Weaving machine having means for ventilating a weft supply means](#)

2625 [4,315,485](#) T [Vapor generator for fuels having different flame radiation intensities](#)

2626 [4,315,388](#) T [Method and system for mounting a heavy spherical container shell on a foundation](#)

2627 [4,314,463](#) T [Jacquard attachment for warp knitting machines](#)

2628 [4,310,931](#) T [Hip joint prosthesis](#)

2629 [4,309,880](#) T [Patterning device for a warp knitting machine](#)

2630 [4,308,971](#) T [Pressure vessel and a method of producing same](#)

2631 [4,308,906](#) T [Net-like or chain-like anti-slip device for a vehicle wheel](#)

2632 [4,308,885](#) T [Tubular safety element for closing a flow line](#)

2633 [4,307,586](#) T [Machine and method for producing knitgoods with a pile or loop-pile surface](#)

2634 [4,306,397](#) T [Mounting means for a storage container for fuel assembly clusters](#)

2635 [4,304,259](#) T [Plant circuit having change-over means for changing sequence of flow](#)

2636 [4,299,273](#) T [Heat exchanger, especially recuperator for high temperature reactors](#)

2637 [4,298,107](#) T [Brake system for a textile machine](#)

2638 [4,297,511](#) T [Method for the manufacture of polyarylamines having methylene bridges](#)

2639 [4,296,050](#) T [Packing element for an exchange column](#)

2640 [4,295,552](#) T [Means for coupling a hand drive with a rotatable shaft](#)

2641 [4,293,384](#) T [Nuclear reactor plant for generating process heat](#)

2642 [4,293,007](#) T [Holding device for the electrical contact elements of a wrap stop motion of a weaving machine](#)

2643 [4,290,390](#) T [Steam generator](#)

2644 [4,287,932](#) T [Process for the precision molding of castings](#)

2645 [4,287,728](#) T [Thread guidance in mesh-forming machines with rotating thread guides](#)

2646 [4,285,209](#) T [Absorption heat pump installation](#)

2647 [4,282,724](#) T [Control magnet system](#)

2648 [4,281,954](#) T [Apparatus for irradiation of piece goods](#)

2649 [4,279,424](#) T [Sealing arrangement for a joint between two stator parts of a turbomachine](#)

2650 [4,279,133](#) T [Laying-in comb for warp knitting machines](#)

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

[Next List](#)

Top

[View Cart](#)

Home

Quick

Advanced

Pat Num

Help

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Hits **2651 through 2700 out of 2889**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)

[Refine Search](#)

AN/Sulzer

**PAT.
NO.**
Title

- 2651 [4,278,619](#) Steam throttle valve
- 2652 [4,276,930](#) Tube nest for a heat exchanger
- 2653 [4,276,911](#) Take-off apparatus for the fabric web of a textile machine, especially a loom
- 2654 [4,274,447](#) Bearing mount for a warp beam
- 2655 [4,273,163](#) Fabric take-off device
- 2656 [4,272,855](#) Anchoring surface for a bone implant
- 2657 [4,271,872](#) Drive mechanism for a sub-mechanism of a weaving machine
- 2658 [4,271,665](#) Installation for generating pressure gas or mechanical energy
- 2659 [4,265,278](#) Ventilating system for a weaving machine
- 2660 [4,265,277](#) Weaving machine having noise attenuating means
- 2661 [4,262,706](#) Loom
- 2662 [4,262,636](#) Method of starting a forced-flow steam generator
- 2663 [4,262,515](#) Method and apparatus for bending a tube
- 2664 [4,261,394](#) Projectile feeder for a gripper projectile weaving machine
- 2665 [4,258,557](#) Knitting machine for producing knitted goods with combed-in fibres
- 2666 [4,258,347](#) Magnet coil
- 2667 [4,257,500](#) Hand drive for coupling to a rotatable shaft
- 2668 [4,253,006](#) Apparatus and method for internally weld-cladding pipe elbows
- 2669 [4,250,931](#) Guide for a weft-picking means
- 2670 [4,249,579](#) Shaft for a weaving machine
- 2671 [4,249,270](#) Endoprosthesis for a knee joint

- 2672 [4,247,015](#) Closure means for a large diameter vessel
- 2673 [4,245,359](#) Plug for openings produced by operative procedures in medullated bones
- 2674 [4,244,197](#) Method and apparatus for producing knit fabric
- 2675 [4,242,885](#) Apparatus for a refrigeration circuit
- 2676 [4,238,081](#) Apparatus for storing filamentary material
- 2677 [4,237,941](#) Loom with cover arrangement
- 2678 [4,235,369](#) Plant for space heating and service water heating
- 2679 [4,234,553](#) Process and apparatus for the preparation of ammonia and heavy water
- 2680 [4,232,522](#) Method and apparatus for utilizing waste heat from a flowing heat vehicle medium
- 2681 [4,231,862](#) Method for the preservation of an activated sludge
- 2682 [4,231,234](#) Assembly plate for assembling cam parts of a knitting machine
- 2683 [4,230,445](#) Burner for a fluid fuel
- 2684 [4,230,210](#) Clutch for a textile machine
- 2685 [4,230,158](#) Cleaning means for a weaving machine
- 2686 [4,227,552](#) Weaving machine having an air duct for cleaning purposes
- 2687 [4,227,265](#) Bone implant with plastic insert between elements of different mechanical properties
- 2688 [4,226,638](#) Method of manufacturing xylose solution from xylan-containing raw material
- 2689 [4,224,699](#) Cap-shaped endoprosthesis for a femoral head
- 2690 [4,224,120](#) Electrolytic method and apparatus for producing magnesium from a salt solution containing magnesium sulphate
- 2691 [4,223,703](#) Picking mechanism for a shuttle of a weaving machine
- 2692 [4,220,200](#) Heat exchanger system
- 2693 [4,213,953](#) Process for the preparation of ammonia and heavy water
- 2694 [4,213,403](#) Incineration plant
- 2695 [4,211,277](#) Heat exchanger having internal fittings
- 2696 [4,211,192](#) Camshaft for an internal combustion engine
- 2697 [4,209,311](#) Filter for large gas quantities
- 2698 [4,206,342](#) Electrode-type steam generator
- 2699 [4,205,708](#) Lubricating system and method for a textile machine
- 2700 [4,204,414](#) Clamping means for material in thread, ribbon or strip form



USPTO PATENT FULL-TEXT AND IMAGE DATABASE[Home](#)[Quick](#)[Advanced](#)[Pat Num](#)[Help](#)[Prev. List](#)[Next List](#)[Bottom](#)[View Cart](#)*Searching US Patent Collection...***Results of Search in US Patent Collection db for:**

AN/Sulzer: 2889 patents.

Hits **2701 through 2750 out of 2889**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

**PAT.
NO.****Title**

- 2701 [4,202,380](#) T Drop plate for an electrical stop motion of a weaving machine
- 2702 [4,201,918](#) T Apparatus for the electron beam irradiation of a flowable material, more particularly sewage sludge
- 2703 [4,201,176](#) T Radial bearing for an internal combustion engine
- 2704 [4,200,066](#) T Internal combustion piston engine
- 2705 [4,199,853](#) T Method of protecting a pipe
- 2706 [4,199,824](#) T Intramedullary stem
- 2707 [4,198,270](#) T Head box for a paper making machine
- 2708 [4,196,601](#) T Endless track rotating thread guide
- 2709 [4,194,468](#) T Forced-flow boiler installation and method of operating the same
- 2710 [4,193,571](#) T Suspension system
- 2711 [4,193,447](#) T Heat exchanger for a high temperature reactor
- 2712 [4,193,428](#) T Loom having an adjustable deflection beam
- 2713 [4,192,356](#) T Catcher mechanism in a gripper projectile weaving machine and method of operating same
- 2714 [4,192,354](#) T Shuttle sensing means for weaving machine catcher mechanism
- 2715 [4,192,353](#) T Cloth take-up system
- 2716 [4,192,143](#) T Exhaust pipe
- 2717 [4,192,142](#) T Exhaust pipe and mounting therefor
- 2718 [4,190,493](#) T Coated structural component for a high temperature nuclear reactor
- 2719 [4,190,104](#) T Heat exchanger having helically wound tube coils
- 2720 [4,189,193](#) T Crankshaft bearing

- 2721 4,186,932 T Resilient sealing ring

2722 4,186,159 T Packing element of foil-like material for an exchange column

2723 4,184,325 T Plant and process for recovering waste heat

2724 4,183,104 T Joint implant

2725 4,178,991 T Heat exchanger and a heat exchanger element therefor

2726 4,174,482 T Foundation frame for an internal combustion engine and electrical generator set

2727 4,173,874 T Apparatus on a textile machine for the feeding of yarns, slivers or other fibrillar materials

2728 4,173,873 T Apparatus on a textile machine for feeding yarn, sliver or fibrous materials

2729 4,172,435 T Cooled cylinder for an internal combustion engine

2730 4,171,713 T Abutment mechanism for a moveable drive member of a weaving machine

2731 4,171,014 T Arrangement for mounting tubes in a tank wall

2732 4,170,446 T Plastics-processing machine

2733 4,170,388 T Pivotaly mounted bearing housing in which two turbo-machine shafts are rigidly coupled

2734 4,167,249 T Stock pulper for pulping and sorting waste paper

2735 4,165,245 T Method for the fabrication of internally weld-cladded pipe elbows

2736 4,160,532 T Knot hole beam

2737 4,160,477 T Spacer grid for parallel cylindrical tubes

2738 4,157,929 T Method of making a porous dimensionally stable heat-resistant and corrosion-resistant plate-like structure

2739 4,156,944 T Total ankle prosthesis

2740 4,153,388 T Method and apparatus for monitoring the state of oscillation of the blades of a rotor

2741 4,152,196 T Stripping column

2742 4,148,288 T Apparatus for operating a reciprocating internal combustion engine

2743 4,147,382 T Connecting piece for a branch duct to a substantially round air conditioning duct

2744 4,147,208 T Heat exchanger

2745 4,147,149 T Exhaust valve for a reciprocating internal combustion engine

2746 4,146,805 T Magnetic drive

2747 4,146,425 T Papermaking machine headbox having a feed channel and an adjacent overflow sump

2748 4,145,799 T Apparatus for fitting and dismantling a crankshaft bearing cap in an internal combustion engine

2749 4,144,846 T Forced-flow steam generator

2750 4,144,456 T Apparatus for irradiating a flowable substance

[Prev. List](#) [Next List](#) [Top](#) [View Cart](#)

[Next List](#)

[Top](#)

[View Cart](#)

Home

Quick

Advanced

Part Num

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AN/Sulzer: 2889 patents.

Hits **2751 through 2800 out of 2889**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

PAT. NO.**Title**

- 2751 [4,143,679](#) T [Fabric having a reinforced warp strip and a process for producing the same](#)
- 2752 [4,142,544](#) T [Safety element for closing a line from a pressure vessel](#)
- 2753 [4,140,214](#) T [Delivery device for a container of bulk material](#)
- 2754 [4,139,997](#) T [Patterning device for actuating operating elements of textile machinery](#)
- 2755 [4,137,967](#) T [Steam generator](#)
- 2756 [4,136,643](#) T [Waste heat steam generator](#)
- 2757 [4,134,432](#) T [Jacquard machine](#)
- 2758 [4,132,368](#) T [Drive for a yarn feeder for a textile machine](#)
- 2759 [4,129,141](#) T [Scram valve](#)
- 2760 [4,128,684](#) T [Method of producing a packing and a packing layer made thereby](#)
- 2761 [4,128,280](#) T [Self-pressurizing floating gas bearing having a magnetic bearing therein](#)
- 2762 [4,128,115](#) T [Entrainig element for a gripper shuttle](#)
- 2763 [4,123,508](#) T [Apparatus and method for manufacturing deuterium enriched water](#)
- 2764 [4,123,341](#) T [Apparatus and process for treating contaminated water](#)
- 2765 [4,122,873](#) T [Control means for controlling the warp let-off of a weaving machine](#)
- 2766 [4,121,090](#) T [Water-jet electrode steam generator](#)
- 2767 [4,120,329](#) T [Gripper shuttle for picking in weaving machines](#)
- 2768 [4,118,156](#) T [Fuel injection pump having choke means in overflow line](#)
- 2769 [4,118,040](#) T [Contactless seal](#)
- 2770 [4,117,871](#) T [Yarn clamp for a weaving machine](#)
- 2771 [4,117,343](#) T [Turbo-machine plant having optional operating modes](#)
- 2772 [4,116,242](#) T [Jacquard machine having means for controlling jacquard needle motion](#)

- 2773 [4,113,613](#) T [Method of improving the operation of backwashable fixed beds formed of granular materials](#)
- 2774 [4,113,612](#) T [Method of improving the backwashing of fixed beds formed of granular materials](#)
- 2775 [4,112,980](#) T [Loom harness](#)
- 2776 [4,111,251](#) T [Net- or chain-like vehicle traction device for vehicular wheels](#)
- 2777 [4,109,137](#) T [Electric steam generator](#)
- 2778 [4,102,705](#) T [Method for removing acids from an aqueous acid-containing xylose solution](#)
- 2779 [4,100,071](#) T [Apparatus for the treatment of liquids](#)
- 2780 [4,093,576](#) T [Mixture for anchoring bone implants](#)
- 2781 [4,088,559](#) T [Holding device for small parts to be electroplated](#)
- 2782 [4,088,157](#) T [Hood system for covering an automatically operating machine](#)
- 2783 [4,086,883](#) T [Reciprocating internal-combustion engine charged with fuel in powder form](#)
- 2784 [4,083,513](#) T [Warp beam](#)
- 2785 [4,083,385](#) T [Coupling for securing a heddle frame to a drive lifter](#)
- 2786 [4,080,997](#) T [Flow straightener for a liquid flow](#)
- 2787 [4,080,789](#) T [Steam generator](#)
- 2788 [4,080,214](#) T [Binding medium and ceramic shell composition for a precision casting-mold](#)
- 2789 [4,077,367](#) T [Method and apparatus for operating an internal combustion engine with solid fuel](#)
- 2790 [4,076,452](#) T [Gas turbine plant](#)
- 2791 [4,076,052](#) T [System for transferring a yarn from one part of a textile machine to another part](#)
- 2792 [4,076,048](#) T [Sley drive for a weaving machine](#)
- 2793 [4,074,725](#) T [Cover for a weaving machine](#)
- 2794 [4,074,138](#) T [Apparatus for treating liquid sludge material](#)
- 2795 [4,070,997](#) T [Reciprocating internal combustion engine using powdered solid fuel](#)
- 2796 [4,070,996](#) T [Reciprocating internal combustion engine for the combustion of finely divided solid fuel](#)
- 2797 [4,069,594](#) T [Drying cylinder](#)
- 2798 [4,059,131](#) T [Jacquard selection system](#)
- 2799 [4,059,077](#) T [Reciprocating internal combustion engine for operation with fuel in powder form](#)
- 2800 [4,058,856](#) T [Joint endoprosthesis](#)

| | | | | |
|----------------------------|---------------------------|--------------------------|---------------------------|----------------------|
| Prev. List | Next List | Top | View Cart | |
| Home | Quick | Advanced | Pat Num | Help |

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[Home](#)

Quick

Advanced

Pat Num

Help

Prev. List

[Next List](#)

Bottom

[View Cart](#)

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Results of Search in US Patent Collection db for:

AN/Sulzer: 2889 patents.

Hits 2801 through 2850 out of 2889

Prev. 50 Hits

Final 39 Hits

Jump To

[Refine Search](#)

AN/Sulzer

PAT.
NO.

Title

- 2801 [4,056,080](#) T [Reciprocating internal combustion engine](#)

2802 [4,056,042](#) T [Rotary hydrostatic piston machine with eccentrically movable guide means](#)

2803 [4,052,963](#) T [Internal combustion engine for combustion of powdered solid fuel](#)

2804 [4,052,586](#) T [Water-jet electrode steam generator and electrode therefore](#)

2805 [4,049,971](#) T [Output regulator for a thermal power-producing plant](#)

2806 [4,048,814](#) T [Refrigerating plant using helium as a refrigerant](#)

2807 [4,048,509](#) T [Gamma-irradiation treatment apparatus](#)

2808 [4,048,504](#) T [Method and apparatus for treating flowable material](#)

2809 [4,047,562](#) T [Heat exchanger utilizing a vaporized heat-containing medium](#)

2810 [4,047,506](#) T [Gas heated steam generator](#)

2811 [4,045,281](#) T [Method for preventing web rewetting](#)

2812 [4,043,120](#) T [Starting arrangement for combined air and gas turbine power plant](#)

2813 [4,041,987](#) T [Jacquard machine equipped with lifting wires and stationary arresting blades](#)

2814 [4,041,980](#) T [Control valve having two independently driven valves](#)

2815 [4,041,979](#) T [Control valve having independently driven valves](#)

2816 [4,041,844](#) T [Hydrostatic piston machine](#)

2817 [4,038,035](#) T [Apparatus for enriching hydrogen with deuterium](#)

2818 [4,036,028](#) T [Process and apparatus for evaporating and heating liquified natural gas](#)

2819 [4,034,782](#) T [Connecting member for securing pull elements to lifting wires of a jacquard machine](#)

2820 [4,033,401](#) T [Precision casting process](#)

2821 [4,033,239](#) T [Radial piston machine](#)

- 2822 [4,033,237](#) T Hydrostatic piston machine having small clearances between bearing surfaces

2823 [4,033,135](#) T Plant and process for vaporizing and heating liquid natural gas

2824 [4,032,994](#) T Hip joint prosthesis

2825 [4,031,863](#) T Process and a control system for controlling the exit temperature of vapor flowing through a contact heating surface of a vapor generator

2826 [4,031,570](#) T Prosthetic acetabulum

2827 [4,028,912](#) T Fabric take-up mechanism

2828 [4,023,982](#) T Apparatus for the production of sugars from hemi-cellulose-containing raw materials

2829 [4,023,599](#) T Opto-electronic weft yarn detector

2830 [4,023,598](#) T Jacquard lifting wire

2831 [4,022,251](#) T Jacquard machine having reciprocating griffes and lifting wires

2832 [4,021,139](#) T Gas turbine guide vane

2833 [4,019,831](#) T Cooled rotor blade for a gas turbine

2834 [4,018,348](#) T Apparatus for irradiating goods conveyed in receptacles

2835 [4,018,094](#) T Apparatus for intermittently turning a turbine shaft

2836 [4,018,064](#) T Electronic control of knitting machines

2837 [4,017,283](#) T Method and plant for making up nitrogen vaporization losses in nitrogen-containing liquified natural gas carrying tankers

2838 [4,016,997](#) T Vessel for conveying a liquid/gas mixture

2839 [4,006,804](#) T Electromagnetically-actuated rotary vane pump for use as a hydraulic brake

2840 [4,006,668](#) T Hydrostatic piston machine having a cylindrical mounting pin

2841 [4,006,520](#) T Machine for connecting workpieces, especially pipe bend segments or the like

2842 [4,005,736](#) T Eccentric mechanism for driving a plurality of heddle carrying frames

2843 [4,003,200](#) T Method and apparatus for cooling turbomachines

2844 [4,003,096](#) T Wrist joint endoprosthesis

2845 [4,002,023](#) T Stationary power-generating plant

2846 [4,000,038](#) T Nuclear power station

2847 [3,999,897](#) T Pump supported by a fluid-isolated, liquid-lubricated thrust bearing

2848 [3,998,249](#) T Cut-off device for a textile machine

2849 [3,998,108](#) T Servomotor

2850 [3,997,912](#) T Method and apparatus for automatic patterning correction

[Prev. List](#) [Next List](#) [Top](#) [View Cart](#)

[Next List](#)

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Quick

Advanced

Pat Num

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AN/Sulzer: 2889 patents.

Hits 2851 through 2889 out of 2889

[Prev. 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Sulzer

| PAT. NO. | Title |
|----------------|---|
| 2851 3,992,876 | Combined gas turbine and steam power plant |
| 2852 3,991,793 | Eccentric drive for a dobby |
| 2853 3,989,412 | Cooled rotor blade for a gas turbine |
| 2854 3,988,897 | Apparatus for storing and re-utilizing electrical energy produced in an electric power-supply network |
| 2855 3,986,779 | Locking device for releasably fastening parts to rotors of fluid flow machines |
| 2856 3,986,529 | Eccentric drive for driving the shafts of a weaving machine |
| 2857 3,986,343 | Apparatus and process for deuterium exchange |
| 2858 3,982,567 | Shuttle return apparatus |
| 2859 3,979,914 | Process and apparatus for superheating partly expanded steam |
| 2860 3,978,776 | Chimney for exhaust gas having means for throttling a flow of exhaust gas |
| 2861 3,978,695 | Apparatus for dyeing a travelling strip such as yarn |
| 2862 3,978,663 | Process and apparatus for evaporating and heating liquified natural gas |
| 2863 3,974,422 | Circuit arrangement for overload protection of a drive motor |
| 2864 3,974,408 | Asynchronous synchronizable magnetic coupling |
| 2865 3,973,599 | Loom having a cloth take-up system |
| 2866 3,973,598 | Loom having a cloth take-up system |
| 2867 3,971,522 | Apparatus for storage of filamentary material |
| 2868 3,971,302 | Chimney for exhaust gas having an adjustable means for throttling a flow of exhaust gas |
| 2869 3,969,891 | Combined gas turbine and steam powder plant |
| 2870 3,968,970 | Stuffing box |
| 2871 3,968,734 | Hydrostatic piston machine |
| 2872 3,965,359 | Irradiation plant having a common closure |

- 2873 [3,955,604](#) T Deflecting device for flat textile structures
- 2874 [3,955,477](#) T Hydrostatic piston machine having a guide for laterally guiding a cylinder block pinte
- 2875 [3,952,777](#) T Hollow body for heated gases
- 2876 [3,952,202](#) T Apparatus for irradiating flowable material
- 2877 [3,951,179](#) T Device for severing a thread in a textile machine
- 2878 [3,951,108](#) T Means for supporting a displaceable mass on a stationary frame
- 2879 [3,947,317](#) T Apparatus for adjusting and indicating position of a breast box lip
- 2880 [3,945,431](#) T Arrangement for mounting tubes in a tank wall
- 2881 [3,945,303](#) T Hydrostatic piston machine
- 2882 [3,944,304](#) T Gas-lubricated self-pressurizing radial bearing
- 2883 [3,943,391](#) T Electromagnetic coupler having an electromagnetic winding
- 2884 [3,943,035](#) T Breast box having an adjustable lip in a paper making machine
- 2885 [3,942,483](#) T Process for regulating a steam generator and a regulatory means therefor
- 2886 [3,939,878](#) T Gripper shuttle for weft yarns
- 2887 [3,939,877](#) T Weaving machine having a border forming means
- 2888 [3,937,433](#) T Support arrangements for turbomachines
- 2889 [3,934,788](#) T Method for welding a top part and an associated bottom part



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AN/Andritz

PAT. NO.**Title**

- 1 [10,914,519 T Method for producing salts with a reduced water of crystallisation content](#)
- 2 [10,870,947 T Process for isolation of hemicelluloses from biomass pulping process waters or spent liquors](#)
- 3 [10,870,250 T Device for dewatering feedstock that is pourable or free-flowing](#)
- 4 [10,870,073 T Vacuum and/or pressure filtration device for filtration of a suspension](#)
- 5 [10,850,288 T Centrifugal separator with feed pipe having spiral grooves](#)
- 6 [10,808,360 T Method for producing a fibrous material web](#)
- 7 [10,807,024 T Filter drum for a vacuum and/or pressure filtration device](#)
- 8 [10,794,001 T Rotary feeder with recess for protective baffle and shear edge assembly](#)
- 9 [10,793,452 T Recovering solid waste brine from processed water utilizing a fluidized bed spray granulator system](#)
- 10 [10,724,175 T Rotor blade and screen comprising a rotor blade](#)
- 11 [10,724,174 T Processes and systems for the pulping of lignocellulosic materials](#)
- 12 [10,697,117 T Segmented rotor cap assembly](#)
- 13 [10,688,455 T High speed injector apparatus with dual throttle bodies](#)
- 14 [10,676,395 T Method and arrangement for burning lime mud](#)
- 15 [10,675,630 T Refiner plate with gradually changing geometry](#)
- 16 [10,668,482 T Method for processing of electrical and electronic components to recover valuable materials](#)
- 17 [10,654,010 T High speed injector with an improved steam valve](#)
- 18 [10,612,847 T Drum dryer](#)
- 19 [10,589,279 T Water relief groove to prevent cavitation of opposite refiner plate](#)
- 20 [10,589,196 T Bar-type screen cage](#)
- 21 [10,557,235 T Ultrasonic semelt dissolving and shattering system](#)
- 22 [10,554,086 T Method for cooling the rotor of an electric generator](#)
- 23 [10,550,821 T Pelton runner](#)

- 24 [10,513,826](#) T Method and device for making wet laid non wovens
- 25 [10,507,473](#) T Nozzle separator bowl
- 26 [10,502,410](#) T Arrangement of heat recovery surfaces of a recovery boiler
- 27 [10,501,888](#) T Cast refiner plate segment with blunt edges and corners for safe handling
- 28 [10,494,259](#) T Method and device for regeneration of hydrochloric acid
- 29 [10,487,450](#) T Rotor refiner plate element for counter-rotating refiner having curved bars and serrated leading edges
- 30 [10,487,430](#) T Water extraction facility
- 31 [10,465,647](#) T Francis turbine with short blade and short band
- 32 [10,443,839](#) T Method of reducing flue gas emissions and a boiler
- 33 [10,391,428](#) T Pressure filter with a flow distributor and a method for washing the pressure filter
- 34 [10,376,853](#) T Method of operating a batch mixer and batch mixer for performing the method
- 35 [10,352,919](#) T Solids level indicator
- 36 [10,345,044](#) T Non-contact strip guiding
- 37 [10,337,145](#) T Stator refiner plate element having curved bars and serrated leading edges
- 38 [10,329,713](#) T Method and arrangement for generating steam at a digester plant of a chemical pulp mill
- 39 [10,329,176](#) T Method and device for dewatering sludge on a screen
- 40 [10,328,368](#) T Flat-face valve for pulp rotary drum vacuum washer filter
- 41 [10,287,124](#) T Airfoil with perpendicular airflow
- 42 [10,280,104](#) T Method for removing mercury from washer suspensions
- 43 [10,279,285](#) T Profiled strainer bar and strainer made of profiled strainer bars
- 44 [10,272,523](#) T Method for continuously conveying and butt-welding sheet metal parts and use of said method
- 45 [10,247,293](#) T Method and system for evaluating and predicting sprocket tooth wear
- 46 [10,246,825](#) T Supporting mechanism for a papermaking machine dewatering blade
- 47 [10,245,751](#) T Clamping assembly for woodworking knife
- 48 [10,240,287](#) T Heating of hydraulic digesters
- 49 [10,220,455](#) T Shear knife
- 50 [10,215,492](#) T Method for producing salts with a reduced water of crystallisation content



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Hits **51** through **100** out of **676**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)

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AN/Andritz

PAT. NO.**Title**

- 51 [10,213,791](#) [Screw centrifuge with auxiliary outer screw flight for wet mechanical separation of solids](#)
- 52 [10,207,279](#) [Sand separator vessel perforated replaceable insert apparatus and method](#)
- 53 [10,179,972](#) [Method for utilizing lignin separated from black liquor as lime-kiln fuel](#)
- 54 [10,166,546](#) [Reduced mass plates for refiners and dispersers](#)
- 55 [10,160,706](#) [Process for removal of sulphur from raw methanol](#)
- 56 [10,132,495](#) [Method and system for monitoring the mass changes of heat exchangers of a steam boiler](#)
- 57 [10,113,268](#) [Installation for drying a damp non-woven web](#)
- 58 [10,100,447](#) [Installation for consolidating a fiber batt, particularly by needlepunching and consolidated nonwoven](#)
- 59 [10,060,076](#) [Paper machine screen](#)
- 60 [10,058,876](#) [Decanter centrifuge with double axial sealing](#)
- 61 [10,052,647](#) [Nozzle assembly with self-cleaning face](#)
- 62 [10,047,957](#) [Isolation chamber for removable startup burner](#)
- 63 [10,046,978](#) [Method for processing packing material to recover aluminium](#)
- 64 [10,012,616](#) [Acoustic emission system and method for predicting explosions in dissolving tank](#)
- 65 [10,011,949](#) [Method for recovering chemicals and by-products from high-sulphidity pulping liquors](#)
- 66 [10,005,252](#) [Screw press](#)
- 67 [9,993,831](#) [Centrifuge and discharge port member of a centrifuge for power reduction](#)
- 68 [9,976,651](#) [Device to create a hermetic seal for large openings in equipment](#)
- 69 [9,976,253](#) [Set for the mechanical processing, in particular grinding of suspended fibrous material](#)
- 70 [9,968,938](#) [Refiner plate with gradually changing geometry](#)
- 71 [9,931,643](#) [Decanter centrifuge with wear-resistant accelerator inserts](#)

- | | | |
|-----|---------------------------|--|
| 72 | 9,908,124 | T Protection tiles for scroll conveyor flights |
| 73 | 9,904,909 | T Chipper machine wear plate, replaceable wear plate corner piece, and anvil monitoring |
| 74 | 9,901,853 | T Method and apparatus for washing pulp by means of intensified suction |
| 75 | 9,885,519 | T Method and installation for drying a damp web |
| 76 | 9,885,153 | T Device for forming an extended nip |
| 77 | 9,884,325 | T Hydrocyclone with fine material depletion in the cyclone underflow |
| 78 | 9,856,879 | T Centrifugation device with adjustable vanes |
| 79 | 9,856,603 | T Process for production of a fibrous pulp web |
| 80 | 9,856,601 | T Method and apparatus for adding steam for a steam explosion pretreatment process |
| 81 | 9,833,732 | T Filter for continuous filtration of a suspension under pressure |
| 82 | 9,803,613 | T Mounting in hub for blades of a hydro turbine |
| 83 | 9,803,319 | T Press roll comb plate and related method |
| 84 | 9,797,371 | T Rotor blade for a turbine |
| 85 | 9,784,275 | T Centrifugal pump |
| 86 | 9,771,682 | T Adjustment assembly for axially adjusting a rotor in a rotary feeder |
| 87 | 9,765,480 | T Installation for drying a damp non-woven web |
| 88 | 9,719,209 | T Method for leaching recovery-boiler ash |
| 89 | 9,713,811 | T Bottom grate of a crusher or drum chipper and method of producing the bottom grate |
| 90 | 9,708,765 | T Rotor refiner plate element for counter-rotating refiner having curved bars and serrated leading edges |
| 91 | 9,670,615 | T Conical rotor refiner plate element for counter-rotating refiner having curved bars and serrated leading sidewalls |
| 92 | 9,643,885 | T Method and arrangement for burning lime mud |
| 93 | 9,638,421 | T Startup burner assembly for recovery boiler and method |
| 94 | 9,636,611 | T Method for removing the precoat layer of a rotary filter |
| 95 | 9,616,605 | T Pellet mill with an improved feed system and a method of forming pelleted material |
| 96 | 9,605,647 | T Compact blade for runner of Francis turbine and method for configuring runner |
| 97 | 9,605,380 | T Papermaking machine wire, the running side of which has cross threads with different lengths |
| 98 | 9,605,379 | T Cast refiner plate segment with blunt edges and corners for safe handling |
| 99 | 9,593,449 | T Screening device |
| 100 | 9,581,191 | T Roller and methods for production and operation |

Prev. List

[Next List](#)

Top

[View Cart](#)

[Home](#)

Quick

Advanced

Pat Num

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Hits **101 through 150 out of 676**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Andritz

| PAT. NO. | Title |
|-------------------------------|--|
| 101 9,573,140 | T Closing valve unit for a cyclone |
| 102 9,562,323 | T Recovery boiler plant of a chemical pulp mill |
| 103 9,551,430 | T Flat-face valve for pulp rotary drum vacuum washer filter and method |
| 104 9,541,286 | T Method for expanding a chemical recovery boiler |
| 105 9,540,767 | T Method for bleaching pulp |
| 106 9,528,223 | T Paper machine wire |
| 107 9,528,135 | T Method and apparatus for cooling pretreated biomass prior to mixing with enzymes |
| 108 9,528,084 | T System for cooling pretreated biomass prior to mixing with enzymes |
| 109 9,523,462 | T Adjustment housing assembly and monitoring and support system for a rotary feeder in a cellulose chip feeding system for a continuous digester |
| 110 9,518,358 | T Assembly of nozzles and valves as discharge ports of a pressurized vessel and method for switching and replacing the nozzles and valves |
| 111 9,506,692 | T Device and method for drying fibrous material |
| 112 9,475,098 | T Vapor relief screen basket cleaning brush and method |
| 113 9,469,491 | T Rotary feeder |
| 114 9,458,888 | T Journal housing for a cylindrical bearing and related method |
| 115 9,452,498 | T Process for manufacturing a Yankee cylinder |
| 116 9,422,518 | T High solids enzyme reactor or mixer and method |
| 117 9,403,243 | T Process for manufacturing a yankee cylinder |
| 118 9,394,806 | T Guide apparatus for turbomachines |
| 119 9,394,091 | T Method for fastening wrapping sheets in pulp-bale packaging, and fastening element |

[T](#)

- 120 [9,371,612](#) T [Method and apparatus to produce pulp using pre-hydrolysis and Kraft cooking](#)
- 121 [9,334,545](#) T [Biomass pretreatment](#)
- 122 [9,310,075](#) T [Method of reducing flue gas emissions and a boiler](#)
- 123 [9,284,684](#) T [Flared inlet insert for introducing flow into a flash tank](#)
- 124 [D750,933](#) T [Mixer housing](#)
- 125 [9,260,818](#) T [Single vessel reactor system for hydrolysis and digestion of wood chips with chemical enhanced wash method](#)
- 126 [9,259,674](#) T [Method and apparatus for reducing the thickness of a precoat layer of a disc filter](#)
- 127 [9,234,737](#) T [Method for measuring and aligning a rotary cylindrical apparatus](#)
- 128 [9,225,218](#) T [Winding overhang support of an electrical machine](#)
- 129 [9,222,730](#) T [Method for forming and using a furnace roller assembly](#)
- 130 [9,216,369](#) T [Filter device](#)
- 131 [9,212,706](#) T [Retrofit assembly and method for installing a hydraulic drive motor to a pressurized vessel](#)
- 132 [9,206,548](#) T [Cooled smelt restrictor at cooled smelt spout for disrupting smelt flow from the boiler](#)
- 133 [9,199,754](#) T [Storage device for binding wire of a cording machine](#)
- 134 [9,194,080](#) T [Two vessel reactor system and method for hydrolysis and digestion of wood chips with chemical enhanced wash method](#)
- 135 [9,186,625](#) T [Method and apparatus for pre-heating recirculated flue gas to a dry scrubber during periods of low temperature](#)
- 136 [9,181,654](#) T [Refiner plate having a smooth, wave-like groove and related methods](#)
- 137 [9,169,505](#) T [High solids enzyme reactor mixer with vertical paddle and method](#)
- 138 [9,163,358](#) T [Method and assembly for processing cellulose pulp of wood processing industry](#)
- 139 [9,156,076](#) T [Device for the disposal of residual wire](#)
- 140 [9,145,641](#) T [Apparatus for disperser plate and method to refine paper](#)
- 141 [9,139,956](#) T [Method for adjusting inlet flow to a flash](#)
- 142 [9,139,858](#) T [Method and apparatus for mixing a lignocellulosic material with enzymes](#)
- 143 [9,139,449](#) T [Method for reducing the content of fine material in FGD gypsum](#)
- 144 [9,127,403](#) T [Flash tank with flared inlet insert and method for introducing flow into a flash tank](#)
- 145 [9,121,440](#) T [Transfer suction roll for transfer of a material web](#)
- 146 [9,115,468](#) T [Chemical treatment of lignocellulosic fiber bundle material, and methods and systems relating thereto](#)
- 147 [9,103,070](#) T [Flash tank with adjustable inlet](#)
- 148 [9,096,382](#) T [Protective cover for the discharge end of a conveyor](#)
- 149 [9,085,850](#) T [Reversible low energy refiner plates](#)
- 150 [9,080,286](#) T [Method in the treatment of odorous gases of a chemical pulp mill](#)

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|----------------------------|---------------------------|--------------------------|---------------------------|----------------------|
| Prev. List | Next List | Top | View Cart | |
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AN/Andritz

**PAT.
NO.****Title**

- 151 [9,068,260 T Knife for wood processing and methods for plating and surface treating a knife for wood processing](#)
- 152 [9,057,559 T Cellulose pulp dryer having blow boxes, and a method of drying a web of cellulose pulp](#)
- 153 [9,004,289 T Filter device](#)
- 154 [8,998,732 T Device for damping vibrations in a drive train](#)
- 155 [8,993,274 T Enzymatic hydrolysis pretreatment of lignocellulosic materials](#)
- 156 [8,992,729 T Method and arrangement for separating contaminants from liquids or vapors](#)
- 157 [8,974,710 T Pellet mill having improved construction](#)
- 158 [8,956,505 T Compact feed system and method for comminuted cellulosic material](#)
- 159 [8,950,584 T Apparatus for screening fibrous suspensions](#)
- 160 [8,926,795 T Method for using washer press with multiple nips and multiple displacement wash zones](#)
- 161 [8,919,008 T Yankee dryer for drying a pulp web](#)
- 162 [8,916,023 T Vapor phase hydrolysis vessel and methods related thereto](#)
- 163 [8,906,198 T Method for production of micro fibrillated cellulose](#)
- 164 [8,894,819 T In-line drainer with shaped screen slots](#)
- 165 [8,894,770 T Process and apparatus to treat metal surfaces](#)
- 166 [8,893,402 T Method for controlling a protective gas atmosphere in a protective gas chamber for the treatment of a metal strip](#)
- 167 [8,888,958 T Pressure diffuser with an annular baffle screen plate over water inlet](#)
- 168 [8,877,012 T Piping system from reactor to separator and method to control process flow](#)
- 169 [8,828,189 T Washer press with multiple nips and multiple displacement wash zones](#)

T

- 170 [8,821,691](#) [Reactor vessel having single convergence sidewall plates](#)
- 171 [8,808,498](#) [T Heat recovery from spent cooking liquor in a digester plant of a chemical pulp mill](#)
- 172 [8,794,137](#) [T Support with wearing parts for screw presses](#)
- 173 [8,778,142](#) [T Suction roll for dewatering a fibrous web](#)
- 174 [8,753,476](#) [T Methods for producing high-freeness pulp](#)
- 175 [8,734,611](#) [T Medium consistency refining method of pulp and system](#)
- 176 [8,734,610](#) [T Two vessel reactor system and method for hydrolysis and digestion of wood chips with chemical enhanced wash method](#)
- 177 [D705,274](#) [T Knife clamp assembly](#)
- 178 [8,721,840](#) [T Apparatus for mixing a substance into a medium](#)
- 179 [8,715,419](#) [T Method for treating, pressing and washing biomass](#)
- 180 [8,707,911](#) [T Cooling system for ports in a boiler](#)
- 181 [8,703,079](#) [T Method for treating lime mud](#)
- 182 [8,685,205](#) [T Flash tank with compact steam discharge assembly](#)
- 183 [8,672,588](#) [T Unobstructed low pressure outlet and screen grid for a high pressure feeder](#)
- 184 [8,671,546](#) [T Method of mounting a refiner plate segment](#)
- 185 [8,641,865](#) [T Method and system for thin chip digester cooking](#)
- 186 [8,640,634](#) [T Combustion air system for recovery boilers, burning spent liquors from pulping processes](#)
- 187 [8,632,657](#) [T Method for treating liquid flows at a chemical pulp mill](#)
- 188 [8,632,656](#) [T Method for treating liquid flows at a chemical pulp mill](#)
- 189 [8,632,655](#) [T Method in connection with the washing of pulp at a chemical pulp mill](#)
- 190 [8,631,832](#) [T Sheet forming screen](#)
- 191 [8,628,623](#) [T Method and process for dry discharge in a pressurized pretreatment reactor](#)
- 192 [8,617,355](#) [T Method and apparatus for mixing a lignocellulosic material with enzymes](#)
- 193 [8,608,176](#) [T Sealing arrangement](#)
- 194 [8,602,955](#) [T Furnace roller assembly](#)
- 195 [8,597,431](#) [T Biomass pretreatment](#)
- 196 [8,597,413](#) [T Scrubber with multiple venturis](#)
- 197 [8,579,783](#) [T Weir and choke plate for solid bowl centrifuge](#)
- 198 [8,573,521](#) [T Refiner plates having steam channels and method for extracting backflow steam from a disk refiner](#)
- 199 [8,545,677](#) [T Calender for treating a product web](#)
- 200 [8,521,333](#) [T Method and apparatus for flue gas recirculation](#)

[Prev. List](#) [Next List](#) [Top](#) [View Cart](#)

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AN/Andritz

**PAT.
NO.****Title**

- 201 [8,512,560](#) T Filter press
- 202 [8,512,514](#) T Method and system to generate steam in a digester plant of a chemical pulp mill
- 203 [8,512,512](#) T System and method for preextraction of hemicellulose through using a continuous prehydrolysis and steam explosion pretreatment process
- 204 [8,495,824](#) T Distributor plate for fluidized bed equipment
- 205 [8,449,724](#) T Method and system for the torrefaction of lignocellulosic material
- 206 [8,444,809](#) T Method and system for direct contact of hot liquor with wood chips in transfer circulation
- 207 [8,440,054](#) T Calender for calendering a paper web
- 208 [8,429,832](#) T Utilization of waste heat in the dryer section of paper machines
- 209 [8,419,369](#) T Axial flow hydraulic turbine with fixed blades bolted-on
- 210 [8,397,878](#) T Electrically actuated storm brake for crane and method for actuating the brake
- 211 [8,387,778](#) T Apparatus for storing rolling material in a pile and reclaiming from the pile
- 212 [8,381,899](#) T Apparatus for storing rolling material in a pile and reclaiming from the pile
- 213 [8,353,989](#) T Apparatus and method for treating, pressing and washing biomass
- 214 [8,349,138](#) T Device for treating a pulp web in an extended nip pressing unit
- 215 [8,349,137](#) T Device for dewatering a material web
- 216 [8,349,060](#) T Scrubber with multiple venturis
- 217 [8,342,437](#) T Deflaker plate and methods relating thereto
- 218 [8,328,124](#) T Bar and groove pattern for a refiner plate and method for compression refining
- 219 [8,328,021](#) T Apparatus for screening fibrous suspensions
- 220 [8,308,899](#) T Shatter jet nozzle with multiple steam sources and method for disrupting smelt flow to a boiler

- 221 [8,302,898](#) T Device for continuous reeling of a pulp web

222 [8,292,086](#) T Strainer apparatus

223 [8,282,773](#) T Method and system to enhance fiber development by addition of treatment agent during mechanical pulping

224 [8,281,936](#) T Vacuum washer drum having a center and end drains and method for draining

225 [8,277,608](#) T Method for treating pulp in connection with the bleaching of chemical pulp

226 [8,262,856](#) T Processes and systems for the bleaching of lignocellulosic pulps following cooking with soda and anthraquinone

227 [8,262,851](#) T Processes and systems for the pulping of lignocellulosic materials

228 [8,252,141](#) T Method for recovering a low sodium content lignin fuel from black liquor

229 [8,246,842](#) T Screen bowl centrifuge

230 [8,246,750](#) T Apparatus and method for hydrolysis of cellulosic material in a multi-step process to produce C.sub.5 and C.sub.6 sugars using a single vessel

231 [8,235,669](#) T Axial flow hydraulic turbine with blade mounting

232 [8,216,423](#) T Multi-stage AP mechanical pulping with refiner blow line treatment

233 [8,211,371](#) T Device and process for heat transfer

234 [8,201,599](#) T Debarking mechanism and method

235 [8,192,582](#) T Apparatus and method for stabilizing a moving web

236 [8,192,581](#) T Apparatus and method for stabilizing a moving web

237 [8,192,549](#) T Apparatus and method for hydrolysis of cellulosic material in a two-step process

238 [8,191,470](#) T Screw shaft surface

239 [8,181,888](#) T Method to assemble wash liquid spray nozzles for a pulp mat

240 [8,177,940](#) T Apparatus and method for stabilizing a moving web having transitions in a surface adjacent the web

241 [8,163,137](#) T Apparatus for cleaning and/or cooling a liquor gun in a chemical recovery boiler

242 [8,157,967](#) T Arrangement in connection with screening apparatuses

243 [8,157,966](#) T Apparatus for removing gas in connection with a paper machine or corresponding

244 [8,157,956](#) T Cylindrical bearing for pressure diffuser and associated method

245 [8,157,195](#) T Mechanical pulping refiner plate having curved refining bars with jagged leading sidewalls and method for designing plates

246 [8,137,568](#) T Rotary drum vacuum filter

247 [8,118,171](#) T Process and device for aerating suspensions

248 [8,109,489](#) T Method and spray tower for contacting gases and liquid droplets for mass and/or heat transfer

249 [8,070,083](#) T Method and apparatus for processing logs

250 [8,061,643](#) T Refiner plate fixtures for quick replacement, and methods and assemblies therefor

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|----------------------------|---------------------------|--------------------------|---------------------------|----------------------|
| Prev. List | Next List | Top | View Cart | |
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Hits 251 through 300 out of 676

[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)

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AN/Andritz

PAT. NO.**Title**

- 251 [8,057,639](#) [System and method for preextraction of hemicellulose through using a continuous prehydrolysis and steam explosion pretreatment process](#)
- 252 [8,052,839](#) [Apparatus and method for washing pulps](#)
- 253 [8,048,270](#) [Apparatus for distributing a pulp flow](#)
- 254 [8,048,263](#) [Four stage alkaline peroxide mechanical pulplings](#)
- 255 [8,042,755](#) [Bar and groove pattern for a refiner plate and method for compression refining](#)
- 256 [8,034,192](#) [Method and system for collecting paper dust](#)
- 257 [8,028,945](#) [Refiner plates having steam channels and method for extracting backflow steam from a disk refiner](#)
- 258 [8,020,594](#) [Debarking mechanism](#)
- 259 [8,002,994](#) [Method and apparatus for thickening lime mud in a disc filter](#)
- 260 [7,988,822](#) [Treatment vessel for straw or other light bulky material](#)
- 261 [7,988,820](#) [Method for cleaning and/or cooling a liquor gun in a chemical recovery boiler](#)
- 262 [7,984,869](#) [Face mounted installation fixture and associated methods](#)
- 263 [7,981,248](#) [Gas free valve for pulp vacuum washer and method](#)
- 264 [7,976,682](#) [Hinged screen plate for drum pulp washer and method for cleaning the plate](#)
- 265 [RE42,424](#) [Method and apparatus for extrusion of expanding water holding products such as foodstuff particles or feeding stuff pellets](#)
- 266 [7,955,422](#) [Method and apparatus for separating fibers from a gas in a centrifuge](#)
- 267 [7,955,421](#) [Degassing method and apparatus for separating gas from liquids and possibly solids](#)
- 268 [7,954,745](#) [Refiner plate segment with triangular inlet feature](#)
- 269 [7,951,263](#) [Method and apparatus for treating pulp](#)



- 270 [7,938,251](#) Chip stacker having outer support for truss and method for turning truss with the support

271 [7,931,152](#) T Shuffling apparatus and method for aligning wood logs in a conveyor

272 [7,900,862](#) T Mechanical pulping refiner plate having curved refining bars with jagged leading sidewalls and method for designing plates

273 [7,896,276](#) T Refiner plates with high-strength high-performance bars

274 [7,892,400](#) T High defiberization chip pretreatment apparatus

275 [7,883,037](#) T Refiner stator plate having an outer row of teeth slanted to deflect pulp and method for pulp deflection during refining

276 [7,855,344](#) T Reversing switch

277 [7,846,379](#) T Industrial furnace

278 [7,846,298](#) T Outlet device for a pressurized vessel having a combined radial bearing and hydraulic drive motor

279 [7,846,294](#) T Method of refining destructured chips

280 [7,831,084](#) T Control of a recovery boiler or alike

281 [7,823,822](#) T System and method to align refiner plates during installation on a disc

282 [7,799,173](#) T Screen plates having diagonal slots with curved inlets for a digester

283 [7,780,815](#) T Gas free valve for pulp vacuum washer and method

284 [7,770,606](#) T Upper side, in particular paper side, and papermaking-machine fabric

285 [7,766,269](#) T Refiner stator plate having an outer row of teeth slanted to deflect pulp and method for pulp deflection during refining

286 [7,758,726](#) T Disc refiner with increased gap between fiberizing and fibrillating bands

287 [7,758,721](#) T Pulping process with high defiberization chip pretreatment

288 [7,758,720](#) T High defiberization pretreatment process for mechanical refining

289 [7,726,596](#) T Refiner with spiral inlet and dual tangential discharge outlet

290 [7,713,381](#) T TMP refining of destructured chips

291 [7,708,207](#) T Wash liquid spray nozzles for pulp mat and method to assemble nozzle

292 [7,690,131](#) T Device for continuous drying of a pulp web

293 [7,686,922](#) T Process and device for dewatering a fiber web

294 [7,678,283](#) T High capacity and high efficiency filter deck assembly system and method of use and replacement

295 [7,674,086](#) T Method and apparatus for handling rolls from paper or tissue making machine without touching the roll surface

296 [7,666,277](#) T Apparatus for forming an extended nip

297 [7,661,376](#) T System for producing energy at a pulp mill

298 [7,658,818](#) T Method for converting a digester for use as a gas phase and hydraulic phase continuous digester

299 [7,648,673](#) T Process for denoxification of off-gases from annealing and pickling lines, and an annealing and pickling line, especially for stainless steel hot or cold strip

300 [7,640,750](#) T Apparatus and method for producing energy at a pulp mill

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Advanced

Pat Num

Help

Prev. List

Next List

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Hits 301 through 350 out of 676

Prev. 50 Hits

Next 50 Hits

Jump To

AN/Andritz

PAT.
NO.

Title

- 301 [7,628,964](#) T Apparatus for treating lime mud
 - 302 [7,625,465](#) T Vacuum belt conveying device for guiding a moving web
 - 303 [7,611,663](#) T Industrial furnace and associated jet element
 - 304 [7,597,873](#) T Process and apparatus for the recovery of metal oxide particles
 - 305 [7,575,658](#) T Vacuum washer drum
 - 306 [7,569,200](#) T Method for reducing nitrogen oxide emissions
 - 307 [7,560,008](#) T Extraction with compaction and springback considerations
 - 308 [7,556,713](#) T Method and system for feeding cellulose chips to a high pressure continuous cooking system
 - 309 [7,556,071](#) T Debarking mechanism
 - 310 [7,540,938](#) T Method and system for energy savings in TMP by high temperature LC/MC refining of pulp
 - 311 [7,520,961](#) T Process and device for blending fluid flows
 - 312 [7,501,042](#) T Method and arrangement in connection with a chemical recovery boiler
 - 313 [7,478,773](#) T Tooth refiner plates having V-shaped teeth and refining method
 - 314 [7,472,855](#) T Refiner stator plate having an outer row of teeth slanted to deflect pulp and method for pulp deflection during refining
 - 315 [7,458,533](#) T Tooth refiner plates with varying feeding angles and refining method
 - 316 [7,455,749](#) T Gas phase continuous digester having an inverted top separator with liquor injection
 - 317 [7,416,640](#) T Apparatus for forming an extended nip
 - 318 [7,401,417](#) T Method and a device for drying or heat treatment of a web-formed material
 - 319 [7,398,938](#) T Conical refiner plates with logarithmic spiral type bars
 - 320 [7,384,512](#) T Device for stabilizing a paper web

- 321 [7,384,511](#) T Device for changing the cloth of a paper machine
322 [7,374,050](#) T High capacity and high efficiency filter deck assembly
323 [7,363,725](#) T Device for drying paper webs, especially tissue paper webs
324 [7,357,847](#) T Device for drying a paper web
325 [7,357,074](#) T Compression screw with combination single and double flights
326 [7,347,916](#) T Vacuum washer drum
327 [7,347,140](#) T Screw press for separation of liquid from solid-liquid mixtures especially pulp suspensions
328 [7,328,808](#) T Apparatus for sorting wood chips in separate fractions
329 [7,314,556](#) T Filter disc with panel sectors
330 [7,314,538](#) T Process and device for discharging lignocellulose raw materials from a digester and conveying the raw material to a refiner
331 [7,309,401](#) T Top separator for gas phase and hydraulic phase continuous digesters and method for converting digester
332 [7,300,550](#) T High intensity refiner plate with inner fiberizing zone
333 [7,300,541](#) T High defiberization chip pretreatment
334 [7,300,540](#) T Energy efficient TMP refining of destructured chips
335 [7,300,008](#) T Tooth refiner plates with varying feeding angles and refining method
336 [7,296,684](#) T Screen for cleaning a fiber suspension
337 [7,296,682](#) T Process for controlling operation of a flotation cell
338 [7,293,659](#) T Drum structure for rotary drum filtering apparatus and methods of using same
339 [7,267,231](#) T Process and device for aerating suspensions
340 [7,267,146](#) T Chipper bed knife
341 [7,261,208](#) T Method and installation for drying sludge
342 [7,255,301](#) T Reel spool storage and loading device and method
343 [7,229,527](#) T Method for the controlled thickening of low consistency fiber suspensions
344 [7,207,280](#) T Combustion air system for recovery boilers, burning spent liquors from pulping processes
345 [7,172,148](#) T Grooved pyramid disperger plate
346 [7,163,622](#) T Filter
347 [7,147,750](#) T Extraction with compaction and springback considerations
348 [7,143,899](#) T Filter element and method for manufacturing the plates thereof
349 [7,128,216](#) T Closed air circulation system
350 [7,125,491](#) T Screen and process for manufacturing a screen of this kind

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|----------------------------|---------------------------|--------------------------|---------------------------|----------------------|
| Prev. List | Next List | Top | View Cart | |
| Home | Quick | Advanced | Pat Num | Help |

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Hits 351 through 400 out of 676

[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)

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PAT. NO.**Title**

- 351 [7,105,076](#) Gas phase continuous digester having an inverted top separator with liquor injection
- 352 [7,090,746](#) Process and device for removing water from a mechanical pulp, chemical pulp or paper sheet
- 353 [RE39,208](#) Method of treating material in a continuous digester
- 354 [7,070,677](#) Method and apparatus for treating pulp with filler
- 355 [7,060,163](#) Device for continuous drying of a pulp sheet
- 356 [7,041,044](#) Rotatable machine or centrifuge with driving motors in a simple casing
- 357 [7,022,061](#) Centrifuge discharge port with power recovery
- 358 [7,005,037](#) Device for detaching a paper web from a wire
- 359 [6,998,056](#) Process and device for aerating a liquid with gas
- 360 [6,978,899](#) Apparatus for sorting wood chips in separate fractions
- 361 [6,946,105](#) Process and apparatus for the recovery of metal oxide particles
- 362 [6,938,359](#) Method for controlling drying of a web-formed material
- 363 [6,923,400](#) Process and device for continuous reeling of a pulp sheet
- 364 [6,921,443](#) Process for producing stainless steel with improved surface properties
- 365 [6,920,983](#) Device for separating solids from liquids by means of flotation
- 366 [6,899,791](#) Method of pretreating lignocellulose fiber-containing material in a pulp refining process
- 367 [6,881,297](#) Process for aerating dispersions
- 368 [6,846,418](#) Process for treating acidic and metallic waste water
- 369 [6,841,042](#) Feeding comminuted fibrous material using high pressure screw and centrifugal pumps
- 370 [6,837,973](#) Apparatus for electrically coating a hot-rolled steel substrate
- 371 [6,835,283](#) Process and device for measuring and controlling the nip pressure in the press of a paper machine

- 372 [6,821,390](#) T [Process and device to control quality parameters in paper, tissue and pulp dewatering plants](#)
- 373 [6,808,634](#) T [Method and device for cross-flow filtration](#)
- 374 [6,797,240](#) T [Process and apparatus for the extraction and regeneration of acids from spent acids](#)
- 375 [6,797,125](#) T [Method of treating condensates](#)
- 376 [6,792,850](#) T [Screw press](#)
- 377 [6,776,876](#) T [Method of treating cellulosic pulp to remove hexenuronic acid](#)
- 378 [6,767,432](#) T [Apparatus for the thickening of fiber suspensions](#)
- 379 [6,761,799](#) T [Method and arrangement for combusting black liquor](#)
- 380 [6,742,463](#) T [Combustion air system for recovery boilers, burning spent liquors from pulping processes](#)
- 381 [6,742,280](#) T [Method in drying of paper](#)
- 382 [6,736,937](#) T [Method and apparatus for controlling the operation of the short circulation of a paper, paperboard or the like production machine](#)
- 383 [6,736,934](#) T [Method of pretreating pulp in an acid tower prior to bleaching with peroxide](#)
- 384 [6,733,629](#) T [Method of controlling the operation of an approach system of a paper machine or the like web formation apparatus](#)
- 385 [6,733,625](#) T [Method and apparatus for treating pulp](#)
- 386 [6,730,232](#) T [Process and device for separating impurities from a suspension by flotation](#)
- 387 [6,730,193](#) T [Wire pit](#)
- 388 [6,723,206](#) T [Method of threading](#)
- 389 [6,719,145](#) T [Arrangement and rotor for screening of pulp](#)
- 390 [6,705,859](#) T [Tapered grizzly bars for lime kiln](#)
- 391 [6,705,561](#) T [Process and device for continuous reeling of a pulp sheet](#)
- 392 [6,673,201](#) T [Top separator with intraseal for digester vessel in a pulp or fiber processing system](#)
- 393 [6,669,819](#) T [Device for continuous reeling of a pulp sheet](#)
- 394 [6,669,410](#) T [High pressure feeder having smooth pocket in rotor](#)
- 395 [6,669,025](#) T [Screen](#)
- 396 [6,656,415](#) T [Process and device for precipitating compounds from zinc metal baths by means of a hollow rotary body that can be driven about an axis and is dipped into the molten zinc](#)
- 397 [RE38,317](#) T [Method and apparatus for treating filler-containing material, such as recycled fibers](#)
- 398 [6,649,068](#) T [Filtration of pulp mill liquids](#)
- 399 [6,647,726](#) T [Method and arrangement for producing electrical energy at a pulp mill](#)
- 400 [6,641,336](#) T [High pressure feeder rotor having conduits for pressure equalization](#)

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|----------------------------|---------------------------|--------------------------|---------------------------|----------------------|
| Prev. List | Next List | Top | View Cart | |
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Title

- | PAT. NO. | Title |
|-------------------------------|---|
| 401 6,637,686 | Refiner |
| 402 6,631,809 | Screen for cleaning a pulp suspension |
| 403 6,619,346 | Debarking machine |
| 404 6,619,345 | Arrangement for a debarking shaft |
| 405 6,616,810 | Device for removing water from a fibrous material strip |
| 406 6,616,384 | High pressure feeder having smooth pocket in rotor |
| 407 6,615,884 | Debarking shaft for a debarking machine |
| 408 6,609,530 | Process and apparatus for treating a continuous strip material |
| 409 6,605,184 | Method and apparatus for treatment of fiber suspension containing minerals, such as coated broke, in paper production |
| 410 6,589,391 | Top separator with intraseal for digester vessel in a pulp or fiber processing system |
| 411 6,588,599 | Screen for pulp processing |
| 412 6,588,467 | Arrangement in the discharge end of a debarking machine |
| 413 6,585,854 | Device for aerating dispersions |
| 414 6,582,601 | Method and apparatus for separating soap |
| 415 6,582,554 | Continuous digester having a sectioned top separator with multiple liquor extraction ports |
| 416 6,579,411 | Bleaching medium consistency pulp with ozone |
| 417 6,579,091 | Cleaning device for cleaning air ports of a furnace |
| 418 6,578,529 | Arrangement for feeding black liquor into a recovery boiler |
| 419 6,576,084 | Method of pretreating pulp with yield or strength-enhancing additive |
| 420 6,569,289 | Cellulose slurry treating systems for adding AQ to a cellulose slurry in the substantial absence of alkali |

- 421 [6,565,027](#) T Refiner
- 422 [6,551,462](#) T System for feeding comminuted fibrous material
- 423 [6,547,923](#) T Process for bleaching medium consistency pulp with ozone using a pressurized fluidizing mixer
- 424 [6,544,384](#) T Pretreatment of chips before cooking
- 425 [6,526,154](#) T Method and apparatus for determining the portion of wood material present in a stream of bark
- 426 [6,524,436](#) T Flash tank steam economy improvement
- 427 [RE37,973](#) T Process and device for surface treatment of strips with liquids
- 428 [6,514,380](#) T Treatment of chemical pulp
- 429 [6,506,294](#) T Process for regeneration of electrolytes from pickle liquor, in particular of NA₂S₀4 from pickle liquor for stainless steel
- 430 [6,506,283](#) T Pretreatment of chips before cooking
- 431 [6,499,603](#) T Screen for cleaning pulp suspensions
- 432 [6,493,076](#) T Method and arrangement for measuring wood
- 433 [6,491,787](#) T Method for heating pulps
- 434 [6,478,928](#) T Process for dewatering a pulp web
- 435 [6,475,345](#) T Device for feeding a pulp suspension with eccentric shaft adjustment
- 436 [6,475,338](#) T Method of minimizing transition metal ions during chemical pulping in a digester by adding chelating agent to the digester
- 437 [6,475,337](#) T Process for aerating dispersions
- 438 [6,470,595](#) T Process and device for continuously drying protein-containing sludge
- 439 [6,468,006](#) T High pressure feeder having restriction ramp in high pressure inlet
- 440 [6,461,473](#) T Supply of washing liquid in a fractionating multi-stage washer
- 441 [6,457,204](#) T Device for dust removal from a moving paper web
- 442 [6,451,280](#) T Process for regeneration of acids from spent acids
- 443 [6,451,194](#) T Process for preparing and replenishing an electrolyte in an electrolyte bath
- 444 [6,451,172](#) T In-line drainer enhancements
- 445 [6,451,163](#) T Method of handling comminuted cellulosic fibrous slurry in a cylindrical vessel
- 446 [6,447,645](#) T Feeding cellulose material to a treatment vessel
- 447 [6,436,233](#) T Feeding cellulose material to a treatment vessel
- 448 [6,432,264](#) T Method of making a vessel assembly for handling comminuted cellulosic fibrous material
- 449 [6,427,706](#) T System for continuous treatment of steel strip
- 450 [6,419,481](#) T Cooler for rotary kilns

[Prev. List](#)[Next List](#)[Top](#)[View Cart](#)[Home](#)[Quick](#)[Advanced](#)[Pat Num](#)[Help](#)

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Hits **451** through **500** out of **676**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)

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**PAT.
NO.****Title**

- 451 [6,418,637](#) T Method of sealing a rotary drum connection
- 452 [6,409,111](#) T Apparatus for reducing the oversized fraction of chips
- 453 [6,401,636](#) T Process and device for incineration of particulate solids
- 454 [6,398,876](#) T Process for pickling steel
- 455 [6,383,342](#) T Cluster rule compliance with reduced steam consumption
- 456 [6,379,504](#) T Apparatus for pulping sawdust
- 457 [6,375,797](#) T Bleaching chemical pulp in a PkDQ-Po Sequence
- 458 [6,375,796](#) T Method of treating material in a continuous digester
- 459 [6,375,795](#) T Minimization of malodorous gas release from a cellulose pulp mill feed system
- 460 [6,368,464](#) T Device for feeding a pulp suspension to a dewatering installation
- 461 [6,368,453](#) T Chip feeding to a comminuted cellulosic fibrous material treatment vessel
- 462 [6,364,998](#) T Method of high pressure high-speed primary and secondary refining using a preheating above the glass transition temperature
- 463 [6,364,930](#) T Process for precipitating compounds from zinc metal baths by means of a hollow rotary body that can be driven about an axis and is dipped into the molten zinc
- 464 [6,358,363](#) T Method and apparatus for bleaching pulp using two fluidizing mixers
- 465 [6,354,514](#) T Method and apparatus for treating material having poor thermal conductivity
- 466 [6,350,348](#) T Batch cooking with black liquor pretreatment
- 467 [6,346,167](#) T Dissolved solids control in pulp production
- 468 [6,346,166](#) T Flash tank steam economy improvement
- 469 [6,344,112](#) T Screen having inclined slots for a digester

T

- 470 [6,340,805](#) [Method of manufacturing a wire screen product](#)
- 471 [6,338,773](#) [T Device for dewatering solid/liquid suspensions, especially pulp suspensions](#)
- 472 [6,336,993](#) [T Metal removal from comminuted fibrous material during feeding](#)
- 473 [6,336,573](#) [T Hopper, or bin, screw feeder construction controlling discharge velocity profile](#)
- 474 [6,332,542](#) [T Tramp material removal from pulp feed system](#)
- 475 [6,325,890](#) [T Feeding comminuted fibrous material](#)
- 476 [6,325,888](#) [T Method for pulping sawdust](#)
- 477 [6,319,366](#) [T Headbox for feeding a pulp suspension to a dewatering installation](#)
- 478 [6,315,128](#) [T Tramp material removal from pulp feed systems](#)
- 479 [6,311,849](#) [T Device for dehydrating and washing suspensions of fibrous material](#)
- 480 [6,306,268](#) [T Device for carrying out continuous electrolytic precipitation](#)
- 481 [6,306,253](#) [T Acid treatment of pulp at high temperature prior to chlorine dioxide bleaching](#)
- 482 [6,306,252](#) [T Heat recovery from spent digester cooking liquor](#)
- 483 [6,284,095](#) [T Minimization of malodorous gas release from a cellulose pulp mill feed system](#)
- 484 [6,280,575](#) [T Frusto-conical outlet for a cellulose material treatment vessel](#)
- 485 [6,280,569](#) [T Compression rings for column relief in continuous cooking vessels](#)
- 486 [6,280,568](#) [T Dissolved organic material control in a cellulose pulp continuous digester](#)
- 487 [6,277,240](#) [T Method for continuously pulping cellulosic fibrous material](#)
- 488 [6,261,412](#) [T Regenerative heat recovery for high temperature condensate stripping plants](#)
- 489 [6,253,818](#) [T Device for changing reels at paper machines](#)
- 490 [6,250,314](#) [T Process of pickling stainless steel](#)
- 491 [6,248,208](#) [T Pretreatment of chips before cooking](#)
- 492 [6,241,851](#) [T Treatment of cellulose material with additives while producing cellulose pulp](#)
- 493 [6,235,151](#) [T Inhibiting scaling in alkaline waste liquor evaporators](#)
- 494 [6,231,729](#) [T Apparatus for preparing and replenishing an electrolyte in an electrolyte bath](#)
- 495 [6,221,213](#) [T Process and device for measuring slice gap spacing at a paper machine headbox](#)
- 496 [6,217,711](#) [T Method of treating condensates](#)
- 497 [6,217,710](#) [T Process for regulating a screw press](#)
- 498 [6,216,610](#) [T Process and device for incineration of particulate solids](#)
- 499 [6,214,310](#) [T Process for the extraction and regeneration of acids from spent acids](#)
- 500 [6,210,650](#) [T Process for regenerating hydrochloric acid from pickling plants](#)

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|----------------------------|---------------------------|--------------------------|---------------------------|----------------------|
| Prev. List | Next List | Top | View Cart | |
| Home | Quick | Advanced | Pat Num | Help |

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Hits **501** through **550** out of **676**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)

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PAT. NO.**Title**

- 501 [6,206,979](#) [Process and apparatus for treating a strip material in a liquid bath](#)
- 502 [6,199,299](#) [Feeding of comminuted fibrous material to a pulping process](#)
- 503 [6,197,160](#) [Apparatus for dewatering a pulp web](#)
- 504 [6,193,406](#) [Method and apparatus for mixing pulp a suspension with a fluid medium with a freely rotatable mixing rotor](#)
- 505 [6,189,583](#) [Apparatus for removing barks from a wood- and bark-containing log flow](#)
- 506 [6,186,373](#) [Hopper, or bin, screw feeder construction controlling discharge velocity profile](#)
- 507 [6,176,971](#) [Heat economy enhancements for the recovery and use of energy obtained from spent cooking liquors](#)
- 508 [6,174,411](#) [Continuous digester with inverted top separator](#)
- 509 [6,165,323](#) [Screen plate having a plurality of inclined slots in a digester](#)
- 510 [6,165,317](#) [Control of refined pulp quality by adjusting high temperature pre-heat residence time](#)
- 511 [6,165,316](#) [Method and plant for separating soap from black liquor using a pressure screen](#)
- 512 [6,164,350](#) [Method and device for preventing or releasing a blocking caused by logs fed to a chipper through a feeding chute](#)
- 513 [6,161,305](#) [Process and plant for mechanical and thermal dewatering of sludges](#)
- 514 [6,159,564](#) [Core and a method of manufacturing such](#)
- 515 [6,159,338](#) [Supply of washing liquid in a fractionating multi-stage washer](#)
- 516 [6,159,337](#) [Dissolved organic materials control in cellulose pulp production](#)
- 517 [6,146,604](#) [Method of removing nitrogen oxides from recovery boiler flue gases](#)
- 518 [6,145,766](#) [Screw device for dewatering and defibrating ligno-cellulose material](#)
- 519 [6,143,134](#) [Chip spreader for air-lock feeder](#)



- 520 [6,142,197](#) [Disc for a disc chipper](#)

521 [6,136,145](#) [T Method for treating pulp in an indirect heat exchanger in connection with bleaching](#)

522 [6,132,556](#) [T Method of controlling pulp digester pressure via liquor extraction](#)

523 [6,129,816](#) [T Tapered screen assembly for a cellulose pulp digester](#)

524 [6,125,688](#) [T Method of determining pulp properties](#)

525 [6,120,671](#) [T Method and apparatus for electrolytic pickling a metallic strip](#)

526 [6,082,907](#) [T Pre-loading device for a radical-bearing unit](#)

527 [6,082,901](#) [T Hydraulic axial bearing](#)

528 [6,076,956](#) [T Device for distributing suspensions in a container](#)

529 [6,058,619](#) [T Process and apparatus for drying material with indirectly heated driers and for decontaminating waste gas](#)

530 [6,053,223](#) [T Chip outlet in a disc chipper](#)

531 [6,051,109](#) [T Apparatus for distributing fluffed pulp into a static bed reactor](#)

532 [6,033,579](#) [T Red mud dewatering and washing process](#)

533 [6,006,444](#) [T Process and a device for reducing dust deposits on the drying hood or duct work of a paper machine](#)

534 [6,006,440](#) [T Process and apparatus for drying a slurry](#)

535 [6,003,684](#) [T Device for dewatering solid-liquid suspensions](#)

536 [5,980,850](#) [T Process and plant for extraction or recovery of acids from solutions of these acids](#)

537 [5,966,838](#) [T Process and apparatus for drying material with indirectly heated driers and for decontaminating waste gas](#)

538 [5,964,264](#) [T Material strander and methods therefor](#)

539 [5,960,559](#) [T Process and apparatus for drying material](#)

540 [5,942,096](#) [T Method and apparatus for electro-depositing a metal or alloy coating onto one or both sides of a metal strip](#)

541 [5,940,987](#) [T Heat exchanger with concentric tubes](#)

542 [5,939,041](#) [T Process and apparatus for removing metal oxide particles in the regeneration of pickling acids](#)

543 [5,938,913](#) [T Process and device for electrolytic treatment of continuous running material](#)

544 [5,918,978](#) [T Device for mixing chemicals into a fibrous material suspension](#)

545 [5,868,903](#) [T Device for dewatering and/or washing suspensions, in particular suspensions of fibrous materials](#)

546 [RE36,033](#) [T Process for the comminution of materials and plants for carrying out the process](#)

547 [5,857,406](#) [T Screw press for separating liquids from solid-liquid mixtures](#)

548 [5,853,495](#) [T Process and device for surface treatment of strips with liquids](#)

549 [5,849,202](#) [T Rotary disc filtration process having means to prevent settlement of solids](#)

550 [5,837,061](#) [T Pickled steel product subsequent treatment process and device, in particular for pickled carbon steel hot strips](#)

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

[Next List](#)

Top

[View Cart](#)

Home

Quick

Advanced

Pat Num

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Hits **551** through **600** out of **676**[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)

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AN/Andritz

PAT. NO.**Title**

- 551 [5,813,618](#) Continuous cylindrical wood pulp refiner
- 552 [5,800,694](#) Process and plant for pickling materials made of steel, in particular stainless steel
- 553 [5,792,352](#) Disc filter and filter elements
- 554 [5,782,605](#) Impeller for separating a conveyed stream of material
- 555 [5,776,305](#) Low-resident, high-temperature, high-speed chip refining
- 556 [5,775,004](#) Process and apparatus for drying a solid-liquid mixture
- 557 [5,772,844](#) Process distributing fluffed pulp into a static bed reactor for gaseous treatment
- 558 [5,727,908](#) Air lift pump for wet particulates
- 559 [5,725,696](#) Process and plant for production of raw stainless steel castings
- 560 [5,725,306](#) High efficiency mixer for mixing pulp material and treatment substances
- 561 [5,716,455](#) Process and apparatus for continuous surface treatment
- 562 [5,699,919](#) Method and apparatus for removing bark balls from a log flow
- 563 [5,691,636](#) Probe assembly mounting for a grinding machine
- 564 [5,678,294](#) Procedure for replacing the knives of a disc chipper
- 565 [5,674,396](#) Rotary filter with a device for separating a solids/liquid mixture, particularly a pulp suspension
- 566 [5,667,157](#) Bearing clearance adjustment
- 567 [5,665,403](#) Double tapered die mount
- 568 [5,651,809](#) Process and device for separating gaseous components
- 569 [5,644,971](#) Vessel for steeping of grain
- 570 [5,637,205](#) Process for the electrolytical coating of an object of steel on one or both sides
- 571 [5,626,889](#) Single tapered die mount

- 572 [5,626,766](#) T [Process for controlling solids-liquid separation](#)

573 [5,626,300](#) T [Disc refiner with conical ribbon feeder](#)

574 [5,624,578](#) T [Separation apparatus nozzle assembly](#)

575 [5,622,458](#) T [Air lift pump for wet particulates](#)

576 [5,616,362](#) T [Process and apparatus for the coating of metal](#)

577 [5,585,124](#) T [Quill shafted pellet mill](#)

578 [5,566,611](#) T [Apparatus for separating liquid from fibrous suspensions](#)

579 [5,564,198](#) T [Apparatus for supplying steam into a silo](#)

580 [5,555,646](#) T [Apparatus for steaming a material in a silo](#)

581 [5,544,757](#) T [Method and device for separating pieces of wood](#)

582 [5,540,846](#) T [Process for filtering solid-liquid mixtures within an enclosed pressure space](#)

583 [5,534,139](#) T [Apparatus for controlling solids-liquid separation](#)

584 [5,522,693](#) T [Process and apparatus for stacking sheets, such as plates, leaves and foils](#)

585 [5,520,804](#) T [Deep bed filtration system](#)

586 [5,517,834](#) T [Method and device for treatment of a fibrous material-fluid mixture](#)

587 [5,515,776](#) T [Worm press with tapered shaft core](#)

588 [5,487,862](#) T [Annular gap expander pellet former and process of using same](#)

589 [5,478,511](#) T [Annular gap expander](#)

590 [RE35,091](#) T [Pressure device and seal for filter belt machines](#)

591 [5,445,328](#) T [Dual zone refiner with separated discharge flow control](#)

592 [5,444,904](#) T [Device for replacing the knives of a disc chipper](#)

593 [5,417,865](#) T [Method and device for the detection and removal of bulges in continuous strips of material](#)

594 [5,411,669](#) T [Process and apparatus for treating pre-concentrated solid-liquid mixture streams](#)

595 [5,383,608](#) T [Twin conical refiner with dual ribbon feeders](#)

596 [5,382,335](#) T [Process and apparatus for the electrolytic treatment of continuously advancing electrically conductive material](#)

597 [5,379,881](#) T [Stream splitting apparatus](#)

598 [5,366,680](#) T [Annular gap extruder](#)

599 [5,364,038](#) T [Screenless hammermill](#)

600 [5,335,865](#) T [Two-stage variable intensity refiner](#)

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

Next List

Top

[View Cart](#)

Home

Quick

Advanced

Pat Num

Help

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Hits **601** through **650** out of **676**[Prev. 50 Hits](#)[Final 26 Hits](#)[Jump To](#)

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AN/Andritz

**PAT.
NO.**
Title

- 601 [5,335,790](#) T Method and device for separating pieces of wood
- 602 [5,314,583](#) T Process for the comminution of materials and plant for carrying out the process
- 603 [5,309,849](#) T Sludge drying system with recycling exhaust air
- 604 [5,307,998](#) T Method for processing scrap film
- 605 [5,293,219](#) T Fiber length analyzer
- 606 [5,292,374](#) T Process and plant for pickling stainless steel strip
- 607 [5,277,829](#) T Deep bed sand filter
- 608 [5,271,672](#) T Apparatus having rotating arms and fluid outlet for treating and discharging a medium
- 609 [5,262,598](#) T Weigh hopper supported by a 3-point suspension with a tension load cell
- 610 [5,257,740](#) T Apparatus and process for recycling scrap film
- 611 [5,248,099](#) T Three zone multiple intensity refiner
- 612 [5,246,563](#) T Process for the electrolytic zinc coating of stainless steel
- 613 [5,239,876](#) T Apparatus for determining the properties of a compactible material
- 614 [5,238,501](#) T Method for treatment of a fibrous material-fluid mixture
- 615 [5,217,722](#) T Apparatus for producing a conveyor belt
- 616 [5,203,996](#) T Apparatus for pressing, dewatering or filtering
- 617 [5,181,664](#) T Grinding plate with angled outer bars
- 618 [5,176,189](#) T Device for transport of material between chambers at different pressures and process for operation of this device
- 619 [5,170,949](#) T Apparatus and method for processing scrap film
- 620 [5,169,581](#) T Process of producing a conveyor belt

- 621 [5,149,515](#) T Process for the production or recovery of acids from metalliferous solutions of such acids

622 [5,148,994](#) T Segment for drum refiners and structure provided therewith

623 [5,130,000](#) T Pickling high-grade steel

624 [5,127,591](#) T Apparatus for crushing or grinding of fibrous material, in particular drum refiner

625 [5,119,995](#) T Keyway for refiner disc

626 [5,109,764](#) T Double screen belt press with a wedge compression zone for dewatering mixtures of fibrous material suspensions

627 [5,100,522](#) T Process and apparatus for the manufacture of a metal foil

628 [5,085,737](#) T Apparatus for the dewatering of a web of cellulosic matter or a web of material for the pasteboard or cardboard production

629 [5,080,700](#) T Rotatable adsorber apparatus for continuously purifying gases

630 [5,048,768](#) T Crushing or grinding element for drum refiners

631 [5,036,037](#) T Process of making catalysts and catalysts made by the process

632 [5,032,376](#) T Method for producing aluminum titanate

633 [5,022,971](#) T Process for the electrolytic pickling of high-grade steel strip

634 [5,017,198](#) T Process for the treatment of material-gas mixtures

635 [5,009,750](#) T Process and apparatus for the manufacture of a metal foil

636 [4,995,541](#) T Set of guide rolls for guiding, positioning and controlling motion of bands of material fed through the rolls

637 [4,986,291](#) T Apparatus and process for the surface treatment of strips with liquids

638 [4,961,326](#) T Material processing system

639 [4,938,038](#) T Material processing system

640 [4,936,518](#) T Apparatus for crushing or grinding of fibrous material, in particular drum refiner

641 [4,936,118](#) T Material processing system

642 [4,913,358](#) T Mixer for pulp and bleaching chemicals

643 [4,885,088](#) T Filter belt press

644 [4,874,591](#) T Process for the purification of waste gases containing hydrochloric acid and sulphur dioxide

645 [4,874,468](#) T Apparatus for the liquid treatment of a fibrous board between two endless foraminous belts or wires

646 [4,863,107](#) T Process and a device for removing foreign solids from pulpers

647 [4,857,193](#) T Floating chicane system for liquid-solid separation equipment

648 [4,851,119](#) T Machine for pressing and dewatering or filtering

649 [4,851,092](#) T Process for electrolytically pickling chromium-containing stainless steel

650 [4,849,116](#) T Process and a plant for separating low density material from substrate mixtures

[Prev. List](#) [Next List](#) [Top](#) [View Cart](#)

[Home](#) [Quick](#) [Advanced](#) [Pat Num](#) [Help](#)

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[Home](#)

Quick

Advanced

Pat Num

Help

Prev. List

Bottom

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Hits 651 through 676 out of 676

Prev. 50 Hits

Jump To

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AN/Andritz

PAT.
NO.

Title

- 651 [4,848,224](#) **T** [Press](#)

652 [4,840,385](#) **T** [Device for sealing shaft bearings or shaft bearing housings](#)

653 [4,834,884](#) **T** [Pressure device and seal for filter belt machines](#)

654 [4,812,234](#) **T** [Oil sludge conditioning equipment](#)

655 [4,789,440](#) **T** [Process and apparatus for the continuous electrolytic treatment and/or coating of a moving metallic strip while changing the spacing between the strip and at least one electrode](#)

656 [4,735,700](#) **T** [Process and apparatus for the continuous electrolytic treatment and/or coating of a moving metallic strip whilst changing the spacing between the strip and at least one electrode](#)

657 [4,729,836](#) **T** [Flexible chicane system for liquid-solid separation equipment](#)

658 [4,681,659](#) **T** [Multi-nip high pressure press](#)

659 [4,612,123](#) **T** [Regulating apparatus for dewatering machines](#)

660 [4,544,447](#) **T** [Dehydration machine for pulp, sludges or similar fibrous materials](#)

661 [4,509,274](#) **T** [Equipment for drying lengths of materials](#)

662 [4,481,118](#) **T** [Method and apparatus for rinsing filter cake](#)

663 [4,469,565](#) **T** [Process of continuously electrodepositing on strip metal on one or both sides](#)

664 [4,462,911](#) **T** [Detoxification or decontamination of effluents and/or flue gases](#)

665 [4,460,461](#) **T** [Device for the regulation of a water-removing machine](#)

666 [4,456,530](#) **T** [Apparatus for improving gravity dehydration in strainer belt presses](#)

667 [4,302,871](#) **T** [Press or reversing roller for double sieve band drainage machines](#)

668 [4,262,715](#) **T** [Decorticating drum with selective processing mode](#)

669 [4,234,237](#) **T** [Bearing for heavy steel drums, in particular decorticating drums](#)

670 [4,218,970](#) **T** [Compression rollers for dehydration equipment](#)

671 [4,168,580](#) **T** [Drying installation for treating webs of material](#)

- 672 [4,147,101](#) [Press for dehydrating fibrous materials and other substances](#)
- 673 [3,995,375](#) [Discharge and draw-off device for driers of material webs](#)
- 674 [3,994,619](#) [Sealing-compartment arrangement in main coolant pumps](#)
- 675 [3,942,584](#) [Hot water pump with cooled sealing housing](#)
- 676 [3,942,433](#) [Roller arrangement in presses for the removal of water from materials](#)
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USPTO PATENT FULL-TEXT AND IMAGE DATABASE

[Home](#)

Quick

Advanced

Pat Num

Help

[Next List](#)

Bottom

[View Cart](#)

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Hits 1 through 50 out of 448

Next 50 Hits

Jump To

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AN/Festo

PAT. NO.

Title

- 1 [10,927,865](#) T Pneumatic control device and process control device equipped therewith
 - 2 [10,927,861](#) T Electropneumatic controller and process control device equipped therewith
 - 3 [10,865,816](#) T Linear drive device
 - 4 [10,852,162](#) T Actuating device
 - 5 [10,851,812](#) T Rotary drive device and a robot arm of a robot equipped therewith
 - 6 [10,851,811](#) T Fluid system and process valve
 - 7 [10,850,932](#) T Positioning system comprising a winding arrangement
 - 8 [10,841,129](#) T Series module, functional module arrangement and modular control arrangement
 - 9 [10,838,409](#) T Valve control device and system
 - 10 [10,833,572](#) T Electric linear motor and testing device
 - 11 [10,830,369](#) T Electric drive pivoting valve device
 - 12 [10,808,738](#) T Method for the supply of compressed air to a compressed-air consumer, valve device and data carrier with a computer program
 - 13 [10,774,857](#) T Method for operating a valve device, valve device and data storage medium with a computer program
 - 14 [10,767,779](#) T Valve controller and method for operating a valve controller
 - 15 [10,761,493](#) T Safety module for an automation system, automation system and method for operating a safety module in an automation system
 - 16 [10,753,378](#) T Fluid-actuated diaphragm drive, and valve arrangement which is equipped therewith
 - 17 [10,746,204](#) T Rotary drive having a position detection device and calibration method
 - 18 [10,731,679](#) T Consumer control device and a control method
 - 19 [10,731,676](#) T Actuator arrangement
 - 20 [10,725,461](#) T Production module for a production plant
 - 21 [10,697,478](#) T Operating unit for a fluid-operated diaphragm actuator and method for the production thereof

and diaphragm actuator equipped therewith

- 22 [10,697,476](#) T [Actuator controller and method for regulating the movement of an actuator](#)
 - 23 [10,657,777](#) T [Segment, linear drive and method for operating a linear drive](#)
 - 24 [10,655,651](#) T [Rotary actuator with position feedback device and process valve module](#)
 - 25 [10,654,174](#) T [Universal end of arm robot tool](#)
 - 26 [10,639,803](#) T [Interface module for a gripping device and a robot equipped therewith](#)
 - 27 [10,608,369](#) T [Series module, connection module and modular designed control arrangement](#)
 - 28 [10,605,274](#) T [Valve arrangement](#)
 - 29 [10,584,805](#) T [Valve actuating system](#)
 - 30 [10,557,485](#) T [Actuator](#)
 - 31 [10,550,957](#) T [Control device and system](#)
 - 32 [10,549,405](#) T [Vacuum gripping device and method for operating a vacuum gripping device](#)
 - 33 [10,503,137](#) T [Safety module for an automation system, method for operating a safety module in an automation system and automation system](#)
 - 34 [10,466,670](#) T [Field bus module, machine controller, and method for parameterizing a field bus module, in particular a safety-oriented field bus module](#)
 - 35 [10,439,839](#) T [Field-device coupling unit and system](#)
 - 36 [10,436,326](#) T [Sealing system and a valve provided therewith](#)
 - 37 [10,428,846](#) T [Fluid control device and method for operating a fluid control device](#)
 - 38 [D861,131](#) T [Valve actuator](#)
 - 39 [D859,595](#) T [Controller for valves](#)
 - 40 [10,372,105](#) T [Drive device with a movement sensor which detects component data](#)
 - 41 [10,364,911](#) T [Valve actuation system](#)
 - 42 [D854,124](#) T [Valve actuator](#)
 - 43 [10,333,515](#) T [Control device, automation system and method for operating a control device](#)
 - 44 [10,316,983](#) T [Valve](#)
 - 45 [10,303,145](#) T [Fluid system and method for operating a fluid system](#)
 - 46 [10,295,984](#) T [Safety-related control device and method for operating a safety-related control device](#)
 - 47 [10,289,089](#) T [Field device](#)
 - 48 [10,263,613](#) T [Safety-oriented load switching device and method for operating a safety-oriented load switching device](#)
 - 49 [10,256,696](#) T [Electrically actuated rotary drive device](#)
 - 50 [10,234,850](#) T [Controller having a communications interface, receiver and method for communication](#)

Next List

Top

[View Cart](#)

Home

Quick

Advanced

Pat Num

Help

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AN/Festo

PAT. NO.**Title**

- | | | |
|----|----------------------------|--|
| 51 | 10,174,849 | Multiple stage pinch valve and filling apparatus using a multiple stage pinch valve |
| 52 | 10,161,490 | Control equipment |
| 53 | 10,135,363 | Communication device and system |
| 54 | 10,103,672 | Stator segment for a linear motor-based transport system and transport system |
| 55 | 10,101,384 | Signal converter circuit and method for evaluating a sensor signal of a safety-oriented device |
| 56 | 10,066,651 | Compressed-air system having a safety function and method for operating such a compressed-air system |
| 57 | 10,060,553 | Valve |
| 58 | 10,060,515 | Linear drive and method for the production thereof |
| 59 | D822,795 | Valve terminal |
| 60 | 9,995,323 | Drive unit of a fluid-actuated linear drive and method for its manufacture |
| 61 | 9,991,074 | Safety-oriented load switching device and method for operating a safety-oriented load switching device |
| 62 | 9,989,380 | Method, linear drive and installation |
| 63 | D819,173 | Electromagnetic valve |
| 64 | 9,970,551 | Valve |
| 65 | D817,448 | Electromagnetic valve |
| 66 | D817,447 | Electromagnetic valve |
| 67 | 9,964,934 | Data acquisition unit and automation system |
| 68 | 9,933,072 | Working cylinder |
| 69 | 9,909,679 | Valve having electro-mechanical actuator and a control device with a delay circuit |
| 70 | 9,886,041 | Method for configuring a fluid control unit, computer program product and fluidic system |

- | | | |
|-----|---------------------------|--|
| 71 | 9,857,806 | T Valve assembly and fluidic system |
| 72 | 9,830,833 | T Automation unit, method for virtual functional interlinking of external components and computer program product |
| 73 | D801,478 | T Valve |
| 74 | 9,800,047 | T Supply module and module chain |
| 75 | 9,751,175 | T Positioning system |
| 76 | 9,746,344 | T Sensor system and method for determining a switching point for a sensor system in an automated manner |
| 77 | 9,734,114 | T Field unit and a method for operating an automation system |
| 78 | 9,709,616 | T Monitoring device, safety system and method for operating a safety system |
| 79 | 9,698,335 | T Piezoelectric actuating device and valve equipped therewith |
| 80 | 9,697,942 | T Electromagnet |
| 81 | 9,683,672 | T Fluid valve |
| 82 | 9,637,023 | T Motor controller and method for operating a motor controller |
| 83 | 9,625,049 | T Valve assembly |
| 84 | 9,620,031 | T Training and simulation device for electric functional process in electric, electromechanical and electrofluidic systems |
| 85 | 9,586,236 | T Sorting device |
| 86 | D778,180 | T Controller for valves |
| 87 | D778,179 | T Controller for valves |
| 88 | D777,586 | T Controller for valves |
| 89 | 9,548,637 | T Linear actuator |
| 90 | 9,528,617 | T Piezoelectric actuated fluid valve |
| 91 | 9,496,815 | T Method for operating a linear motor assembly and linear motor assembly |
| 92 | 9,479,026 | T Linear actuator |
| 93 | 9,476,510 | T Diaphragm valve |
| 94 | D766,402 | T Valve |
| 95 | 9,441,758 | T Valve device, valve assembly and method for calibrating a valve assembly |
| 96 | 9,434,075 | T Method for operating a multi-limb manipulator |
| 97 | 9,399,916 | T Fluid-actuated rotary drive device |
| 98 | 9,390,045 | T Bus node and control system for controlling a work machine |
| 99 | D760,353 | T Valve |
| 100 | D760,352 | T Valve |

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

Next List

Top

[View Cart](#)

Home

Quick

Advanced

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AN/Festo

**PAT.
NO.**

Title

- 101 [9,334,969](#) [Pinch valve](#)
- 102 [D754,293](#) [Valve actuator](#)
- 103 [D754,292](#) [Valve actuator](#)
- 104 [D754,291](#) [Valve actuator](#)
- 105 [9,241,416](#) [Module arrangement](#)
- 106 [9,103,460](#) [Control head for a fluid-actuated valve](#)
- 107 [9,086,300](#) [Electric motor and method for the operation of an electric motor](#)
- 108 [9,081,740](#) [Signal processing system and method for processing signals in a bus node](#)
- 109 [9,080,679](#) [Valve assembly](#)
- 110 [9,062,798](#) [Pressure regulating device and method of operating a pressure regulating device](#)
- 111 [8,905,067](#) [Valve module](#)
- 112 [8,876,182](#) [Integrated two dimensional robotic palm for variable pitch positioning of multiple transfer devices](#)
- 113 [8,863,608](#) [Fluid-operated manipulator](#)
- 114 [8,713,226](#) [Device for transmitting data between a serial data bus and working modules such as actuator modules and/or I/O modules](#)
- 115 [8,689,833](#) [Valve device](#)
- 116 [8,678,776](#) [Vacuum generating device and method for the operation thereof](#)
- 117 [D699,761](#) [Pneumatic cylinder](#)
- 118 [D699,760](#) [Pneumatic cylinder](#)
- 119 [D699,759](#) [Pneumatic cylinder](#)
- T

- 120 [8,651,140](#) **T** Valve arrangement for different flow rate categories
- 121 [8,567,442](#) **T** Soft start device for pneumatic systems and method for the operation of a soft start device
- 122 [D689,525](#) **T** Cylinder tube for a pneumatic cylinder
- 123 [D689,524](#) **T** Cylinder tube for a pneumatic cylinder
- 124 [D685,403](#) **T** Linear drive
- 125 [D685,014](#) **T** Linear drive
- 126 [D682,901](#) **T** Pneumatic cylinder
- 127 [8,443,684](#) **T** Rotary drive device
- 128 [D681,085](#) **T** Linear drive
- 129 [8,413,679](#) **T** Modular control device, especially of an electro-fluidic type
- 130 [D674,423](#) **T** Rotary drive device
- 131 [D673,197](#) **T** Rotary drive device
- 132 [D673,196](#) **T** Rotary drive device
- 133 [8,332,179](#) **T** Sensor device for a fluid power apparatus
- 134 [8,291,932](#) **T** Valve means
- 135 [8,266,902](#) **T** Valve module
- 136 [8,240,243](#) **T** Fluid power linear drive
- 137 [8,219,253](#) **T** Regulator module for a valve cluster
- 138 [8,215,616](#) **T** Method for operating a merchandise presentation arrangement, as well as a lifting device for a merchandise presentation arrangement in order to carry out said method
- 139 [8,171,951](#) **T** Valve with an AND-function
- 140 [8,156,965](#) **T** Modular arrangement with modules, which are added in a series direction and are formed at least partially as valve modules
- 141 [8,151,823](#) **T** Fluid power valve arrangement with at least one solenoid valve
- 142 [8,134,258](#) **T** Electrical direct linear drive device with a stator having two guide rails for the linear guidance of a driven carriage
- 143 [8,091,468](#) **T** Fluid power linear drive device
- 144 [8,082,943](#) **T** Valve apparatus
- 145 [8,075,022](#) **T** Fluidically operated device
- 146 [8,074,961](#) **T** Magnetic valve with manual override
- 147 [8,066,028](#) **T** Structure for mounting valve units on a valve support
- 148 [8,053,949](#) **T** Electronic control device for a piezo-ceramic bending transducer designed as a trimorph
- 149 [7,973,435](#) **T** Electrical linear drive
- 150 [7,971,520](#) **T** Fluid power arrangement

| | | | | |
|----------------------------|---------------------------|--------------------------|---------------------------|----------------------|
| Prev. List | Next List | Top | View Cart | |
| Home | Quick | Advanced | Pat Num | Help |

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AN/Festo

**PAT.
NO.****Title**

- 151 [7,941,290 T Method for error containment and diagnosis in a fluid power system](#)
- 152 [7,931,309 T Modular compressed air maintenance unit](#)
- 153 [7,926,409 T Valve cluster](#)
- 154 [7,917,325 T Method for error containment and diagnosis in a fluid power system](#)
- 155 [7,914,051 T Connecting device for a fluid line](#)
- 156 [7,896,102 T Pneumatic drive system](#)
- 157 [7,891,375 T Softstart valve means](#)
- 158 [7,860,610 T Handling device](#)
- 159 [7,845,060 T Method for the production of a catching connection in a linear drive](#)
- 160 [7,841,824 T Method for transferring magnetic samples from a source to a target](#)
- 161 [7,834,488 T Electric linear drive unit](#)
- 162 [7,799,281 T Flux concentrator for biomagnetic particle transfer device](#)
- 163 [7,793,993 T Coupling device for a fluid line](#)
- 164 [D622,349 T Detector for detecting the angular position of a rotatable shaft](#)
- 165 [7,775,501 T Pinch valve](#)
- 166 [7,770,974 T Height adjustment device of a vehicle seat and a vehicle seat fitted with it](#)
- 167 [7,750,647 T Position detecting device with a microwave antenna arrangement and a method for the manufacture thereof](#)
- 168 [D618,309 T Detector for detecting the angular position of a rotatable shaft](#)
- 169 [7,739,944 T Fluid operated rotary drive](#)
- 170 [D616,528 T Detector for detecting the angular position of a rotatable shaft](#)

- 171 [7,699,073](#) T Soft start device for compressed air systems
 - 172 [7,693,686](#) T Sensor arrangement with a sensor and a signal processing means
 - 173 [7,690,398](#) T Electrofluidic control device
 - 174 [D610,655](#) T Pneumatic actuator
 - 175 [7,650,828](#) T Piston and a fluid operated setting device connected therewith
 - 176 [D608,416](#) T Valve
 - 177 [D608,415](#) T Valve
 - 178 [7,637,281](#) T Pilot controlled pulse valve
 - 179 [D604,396](#) T Valve
 - 180 [7,620,522](#) T Diagnostic device for at least one pneumatic valve actuator arrangement
 - 181 [7,607,452](#) T Valve construction kit for the production of valve clusters
 - 182 [7,598,697](#) T Electric motor and a method therefor
 - 183 [7,597,520](#) T Apparatus and method for transferring samples from a source to a target
 - 184 [7,537,624](#) T Condensate filter, particularly for pneumatic classification modules
 - 185 [7,534,081](#) T Apparatus and method for transferring samples from a source to a target
 - 186 [7,520,208](#) T Drive device comprising a position controller
 - 187 [7,492,165](#) T Position detecting device with a microwave antenna arrangement
 - 188 [7,457,716](#) T Control module arrangement and compressed air maintenance unit
 - 189 [7,451,684](#) T Actuator device with a microwave position detecting device
 - 190 [7,405,917](#) T Method and apparatus for monitoring and determining the functional status of an electromagnetic valve
 - 191 [7,404,541](#) T Solenoid valve
 - 192 [7,392,824](#) T Fluid power device with a pressure regulator
 - 193 [7,380,836](#) T Connection device for fluid lines
 - 194 [7,343,845](#) T Fluid operated position regulator
 - 195 [7,323,798](#) T Microwave displacement measurement system for an electrodynamic direct drive
 - 196 [7,322,376](#) T Piezoelectric valve
 - 197 [7,322,272](#) T Piston and a power cylinder fitted therewith
 - 198 [7,290,477](#) T Linear drive
 - 199 [7,284,473](#) T Fastening element and adapt cylinder cover of a fluid-actuated working cylinder
 - 200 [7,276,267](#) T Method for the manufacture of an injection molded conductor carrying means

| | | | | |
|----------------------------|---------------------------|--------------------------|---------------------------|----------------------|
| Prev. List | Next List | Top | View Cart | |
| Home | Quick | Advanced | Pat Num | Help |

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AN/Festo

**PAT.
NO.****Title**

- 201 [7,272,533](#) T Diagnostic device for a fluidic device and a fluidic device equipped therewith
- 202 [7,225,722](#) T Linear drive
- 203 [7,225,055](#) T Control device, a control module, a module battery and a control system
- 204 [7,222,901](#) T Vacuum handling device having a suction nozzle and a gripper part contained within a single housing
- 205 [7,222,887](#) T Fluid operated contractile drive
- 206 [7,213,472](#) T Connecting piece for fluid lines
- 207 [7,207,353](#) T Pilot controlled multiway valve
- 208 [7,207,262](#) T Linear drive
- 209 [7,207,177](#) T Position control device for an electrical-fluid power drive and a method of positioning
- 210 [7,202,578](#) T Electromagnetic drive device
- 211 [7,199,494](#) T Electric linear actuator
- 212 [7,191,800](#) T Fluidic control system
- 213 [7,185,580](#) T Fluid-actuated contraction drive and associated contraction tube
- 214 [7,182,102](#) T Module for a valve bank
- 215 [7,171,985](#) T Distributor module for valve clusters and a valve cluster
- 216 [7,154,037](#) T Connector piece, fluid line and hydraulic device
- 217 [7,140,389](#) T Vacuum producing device
- 218 [7,127,982](#) T Linear drive with non-rotating piston
- 219 [7,124,057](#) T Method and apparatus for diagnosing a cyclic system
- 220 [7,104,182](#) T Contractile unit having a position sensor means

- 221 [7,066,750](#) T Connection piece for a fluid line
222 [D522,615](#) T Service unit
223 [7,055,423](#) T Fluid-activated linear drive
224 [7,049,827](#) T Servicing device and furthermore expendable material and a capacitive sensor therefor
225 [7,040,351](#) T Plastic tube, especially a pneumatic tube
226 [7,040,346](#) T Fluid power valve and integrated visual indicator
227 [7,032,501](#) T Apparatus and method for providing a clamp on a fluid power cylinder
228 [7,031,850](#) T Method and apparatus for diagnosing leakage in a fluid power system
229 [7,026,747](#) T Flexural actuator and an actuator means fitted with same
230 [7,018,160](#) T Handling device for repositioning parts
231 [7,014,126](#) T Sorting machine for diverting an article from an article stream
232 [6,992,408](#) T Linear drive device
233 [6,986,665](#) T Plug connector having a rotatable outgoing cable part
234 [6,986,500](#) T Electrostatic microvalve and a method for the operation thereof
235 [6,973,867](#) T Valve controlled fluidic actuator system
236 [6,971,272](#) T Integrated fluid sensing device
237 [6,969,929](#) T Coil system, a method for the production thereof and an electrodynamic direct linear drive having said coil system
238 [6,966,337](#) T Means for auxiliary manual operation
239 [6,962,167](#) T Choke valve
240 [6,955,332](#) T Hinged armature valve
241 [6,938,938](#) T Fluid operated gripper
242 [6,937,160](#) T Sensor arrangement for application to at least one data item
243 [6,935,845](#) T Plurality of vacuum generation units
244 [6,929,019](#) T Method for the production of a valve
245 [6,919,719](#) T Method and apparatus for detecting the position of a body
246 [6,916,192](#) T Control device
247 [6,910,408](#) T Linear drive with no connecting rod
248 [6,901,794](#) T Multiple technology flow sensor
249 [6,899,198](#) T Compressed air muffler
250 [6,892,763](#) T Valve arrangement



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AN/Festo

**PAT.
NO.****Title**

- 251 [6,874,407 T Piston rod-less linear drive](#)
 252 [6,874,406 T Piston rod-less linear drive](#)
 253 [6,871,500 T Gas operated contraction drive](#)
 254 [6,866,060 T Valve means](#)
 255 [6,854,739 T Sealing ring](#)
 256 [6,854,340 T Flow measuring device](#)
 257 [6,851,936 T Vacuum producing device](#)
 258 [6,851,917 T Manipulator device for repositioning parts](#)
 259 [6,848,924 T Connector piece for flexible plastic conduits, comprising a sensor assembly](#)
 260 [6,840,154 T Working cylinder](#)
 261 [6,840,152 T Actuating means](#)
 262 [6,839,789 T Bus repeater for coupling a first and second bus](#)
 263 [6,825,656 T Position detection device for a linear drive](#)
 264 [6,811,136 T Piezoelectric valve](#)
 265 [6,807,894 T Contraction unit with position sensor device](#)
 266 [6,792,845 T Linear drive unit](#)
 267 [6,787,944 T Electrodynamic linear direct drive and method for producing a coil system therefor](#)
 268 [6,786,238 T Solenoid valve](#)
 269 [6,786,127 T Fluid-actuated linear drive](#)
 270 [6,783,379 T Connector, a fluid line and a fluid power instrumentality](#)
 271 [6,783,161 T Connection device for a fluid duct](#)

- 272 [6,769,250](#) T Fluidic system with a safety function
- 273 [6,766,727](#) T Rodless linear drive
- 274 [6,762,536](#) T Piezoceramic bending transducer and use thereof
- 275 [6,761,596](#) T Contacting means for valve drives and a valve arrangement fitted with it
- 276 [6,755,115](#) T Working cylinder
- 277 [6,747,400](#) T Piezoelectric flexural transducer and use thereof
- 278 [6,745,793](#) T Valve assembly comprising an internal flow channel with an open longitudinal section
- 279 [6,745,789](#) T Valve unit with an overridable check valve and a fluid power drive fitted therewith
- 280 [6,744,177](#) T Piezoelectric bending transducer and use thereof
- 281 [6,736,158](#) T Splitting device for pressure medium ducts and a duct component having same
- 282 [6,736,033](#) T Device for the control of the thrust force of a manually operated pneumatic screw driver
- 283 [6,729,852](#) T Vacuum producing device
- 284 [6,715,731](#) T Piezoelectric valve
- 285 [6,715,400](#) T Fluid power operative instrumentality
- 286 [6,708,715](#) T Pneumatic pressure control device
- 287 [6,705,198](#) T Linear drive
- 288 [6,703,937](#) T Filtering apparatus for filtering compressed air
- 289 [6,701,962](#) T Stackable valve manifold arrangement
- 290 [6,700,227](#) T Direct electrodynamic linear drive
- 291 [6,687,398](#) T Method and an apparatus for the identification of incorrectly oriented parts and/or parts departing from a predetermined master
- 292 [6,681,800](#) T Control valve means and furthermore a valve suitable for use as a component thereof
- 293 [6,663,078](#) T Microvalve
- 294 [6,645,277](#) T Filtering apparatus for filtering compressed air
- 295 [6,641,131](#) T Handling device, in particular for handling boards and foils
- 296 [D480,654](#) T Pressure sensor
- 297 [D480,405](#) T Working cylinder
- 298 [6,619,142](#) T Integrated fluid sensing device
- 299 [6,583,435](#) T Manual operating means for valves
- 300 [6,581,638](#) T Piezo valve



USPTO PATENT FULL-TEXT AND IMAGE DATABASE[Home](#)[Quick](#)[Advanced](#)[Pat Num](#)[Help](#)[Prev. List](#)[Next List](#)[Bottom](#)[View Cart](#)*Searching US Patent Collection...***Results of Search in US Patent Collection db for:****AN/Festo:** 448 patents.*Hits 301 through 350 out of 448*[Prev. 50 Hits](#)[Next 50 Hits](#)[Jump To](#)[Refine Search](#)

AN/Festo

**PAT.
NO.****Title**

- 301 [6,581,619](#) T [Method and device for the supply of electrical loads in or on a pneumatic device with electrical power energy](#)
- 302 [6,554,017](#) T [Pressure regulating valve with secondary venting measures](#)
- 303 [6,550,368](#) T [Fluid power interlock system](#)
- 304 [6,546,823](#) T [Sensor arrangement](#)
- 305 [6,543,223](#) T [Drive device](#)
- 306 [6,536,327](#) T [Double acting cylinder with integral end position volume chambers](#)
- 307 [6,533,596](#) T [Linear drive](#)
- 308 [6,505,542](#) T [Piston rod-less linear drive and a housing therefor](#)
- 309 [6,499,509](#) T [Valve means](#)
- 310 [6,496,092](#) T [Electromagnetic drive](#)
- 311 [6,484,754](#) T [Pivoting valve device, especially an amplifier](#)
- 312 [6,468,092](#) T [Electronic component, in a particular for a control device provided with valves](#)
- 313 [6,463,950](#) T [Method and device for the transmission of control and/or sensor signals](#)
- 314 [6,460,466](#) T [Drive device](#)
- 315 [6,455,800](#) T [Servo-pneumatic modular weld gun](#)
- 316 [6,453,948](#) T [Valve arrangement](#)
- 317 [6,450,202](#) T [Valve](#)
- 318 [6,448,667](#) T [Drive device](#)
- 319 [6,445,193](#) T [Distance measuring device and method for determining a distance](#)
- 320 [6,429,548](#) T [Pressure switch](#)

- 321 [6,427,723](#) T Valve arrangement having individual electrical valve connection modules
322 [6,427,576](#) T Display device
323 [6,415,706](#) T Actuator
324 [D458,985](#) T Valve arrangement
325 [6,401,593](#) T Drive and guide means for a load to be moved
326 [6,400,047](#) T Linear drive
327 [6,397,880](#) T Microvalve battery
328 [6,367,767](#) T Control member for a piezo-valve
329 [6,363,970](#) T Valve means
330 [6,360,648](#) T Fluid operated rotary drive
331 [6,349,746](#) T Actuating means
332 [6,338,294](#) T Linear drive
333 [6,325,101](#) T Choke valve
334 [6,312,264](#) T Connecting device
335 [6,304,977](#) T Field bus arrangement
336 [6,279,968](#) T Servicing apparatus for treating compressed air
337 [6,279,887](#) T Articulated lever tensioning device
338 [6,279,411](#) T Linear drive mechanism
339 [6,262,874](#) T Circuit device
340 [D440,401](#) T Container
341 [6,216,738](#) T Valve arrangement with at least one valve unit comprising several electrically operated valves
342 [6,199,848](#) T Fluid power gripper
343 [6,196,110](#) T Linear drive
344 [6,186,049](#) T Linear drive mechanism without a piston rod
345 [6,182,941](#) T Micro-valve with capacitor plate position detector
346 [6,179,006](#) T Plate-type mounting base
347 [6,177,743](#) T Linear drive
348 [6,173,969](#) T Sealing ring
349 [6,170,384](#) T Fluid power rotary drive device
350 [6,169,338](#) T Compressed air servicing unit



USPTO PATENT FULL-TEXT AND IMAGE DATABASE[Home](#)[Quick](#)[Advanced](#)[Pat Num](#)[Help](#)[Prev. List](#)[Next List](#)[Bottom](#)[View Cart](#)*Searching US Patent Collection...***Results of Search in US Patent Collection db for:****AN/Festo:** 448 patents.*Hits 351 through 400 out of 448*[Prev. 50 Hits](#)[Final 48 Hits](#)[Jump To](#)[Refine Search](#)

AN/Festo

**PAT.
NO.****Title**

- 351 [6,158,567](#) T Trip device
- 352 [6,145,904](#) T Fluid operated gripper device
- 353 [6,106,032](#) T Pneumatic door lock
- 354 [6,098,517](#) T Rotary linear unit
- 355 [6,085,632](#) T Apparatus for the damped positioning of a piston
- 356 [6,077,094](#) T Plug connector means with gripper rib
- 357 [6,041,415](#) T Field bus arrangement having independent power circuits and control circuits
- 358 [6,039,358](#) T Connecting means for two members in fluid conducting assembly
- 359 [6,037,739](#) T Electromagnetic drive system with integrated path signal generation
- 360 [6,014,924](#) T Slide drive arrangement
- 361 [6,007,034](#) T Device for the attachment of a sensor
- 362 [5,929,536](#) T Control device, more especially for actuating valves
- 363 [5,924,823](#) T Suction nozzle, method for operation, and use of the nozzle
- 364 [5,901,504](#) T Roof of a structure
- 365 [5,884,360](#) T Nozzle arrangement and use thereof
- 366 [D402,023](#) T Filter regulator unit
- 367 [D400,240](#) T Bowl guard
- 368 [D400,211](#) T Lubricator unit
- 369 [5,823,505](#) T Solenoid valve with an ancillary drive member
- 370 [5,820,091](#) T Functional component usable for demonstration and/or training purposes
- 371 [5,819,801](#) T Method and device for producing periodical impulse changes in a fluid flow

- 372 [5,813,313](#) T [Piston for a fluid power cylinder](#)
 - 373 [5,796,008](#) T [Pressure gage device having a tube spring associated with a venting valve to adjust a preset](#)
 - 374 [5,794,901](#) T [Functional component usable for demonstration and/or training purposes](#)
 - 375 [5,777,471](#) T [Device for detecting angular positions of a shaft](#)
 - 376 [5,765,589](#) T [Valve arrangement](#)
 - 377 [5,761,985](#) T [Fluid power cylinder](#)
 - 378 [5,746,110](#) T [Drive cylinder](#)
 - 379 [5,743,049](#) T [Support structure for architectural systems](#)
 - 380 [5,732,613](#) T [Fluid operated rotary drive with position detector](#)
 - 381 [5,711,535](#) T [Valve spool seal with one-piece housing ring having an arcuate side wall and a stepped side wall](#)
 - 382 [5,697,726](#) T [Coupling device for linear drives](#)
 - 383 [5,682,918](#) T [Pressure control valve](#)
 - 384 [5,666,994](#) T [Valve arrangement](#)
 - 385 [5,662,022](#) T [Piston-rod-less linear drive](#)
 - 386 [5,638,676](#) T [Fluid power cylinder](#)
 - 387 [5,609,091](#) T [Fluid power advancing unit](#)
 - 388 [5,606,993](#) T [Multiway valve](#)
 - 389 [5,603,509](#) T [Stripping device](#)
 - 390 [5,603,350](#) T [Valve station](#)
 - 391 [5,570,717](#) T [Distributor device](#)
 - 392 [5,568,982](#) T [Linear drive](#)
 - 393 [5,568,760](#) T [Fluid power cylinder with position indicator](#)
 - 394 [5,531,151](#) T [Rodless cylinder](#)
 - 395 [5,522,303](#) T [Machine tool with locking mechanism](#)
 - 396 [5,519,636](#) T [Electronic control device for a valve range of modular design](#)
 - 397 [5,514,961](#) T [Position detecting device for a linear drive including two magnets having like poles disposed facing each other for concentrating the flux at one point](#)
 - 398 [5,490,385](#) T [Valve range](#)
 - 399 [5,487,409](#) T [Spool valve](#)
 - 400 [5,485,867](#) T [Choke valve](#)

[Prev. List](#) [Next List](#) [Top](#) [View Cart](#)

Next List

Top

[View Cart](#)

Home

Quick

Advanced

Pat Num

Help

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|

[Refine Search](#)

AN/Festo

PAT.**NO.****Title**

- 401 [5,469,775](#) T Linear drive with a buffer device
- 402 [5,458,048](#) T Electro-pneumatic control device
- 403 [5,457,594](#) T Electropneumatic control device
- 404 [5,443,093](#) T Control device for a multiway valve
- 405 [5,437,044](#) T Virtual operating unit for microprocessor-controlled devices
- 406 [5,367,943](#) T Rotary-linear unit
- 407 [5,361,803](#) T Spool valve
- 408 [5,351,599](#) T Linear drive device
- 409 [5,348,047](#) T Valve arrangement
- 410 [5,338,005](#) T Sealing ring for multi-way valves
- 411 [5,335,587](#) T Housing for a drive cylinder
- 412 [5,330,272](#) T Linear drive
- 413 [5,234,033](#) T Fluid power valve unit
- 414 [5,228,380](#) T Linear drive
- 415 [5,221,113](#) T Male and female screw threads, more especially for pneumatic equipment
- 416 [5,205,594](#) T Connecting device for fluid conduits and the like
- 417 [5,205,568](#) T Sealing ring
- 418 [5,190,078](#) T Sealing device for a multiway valve and a method for the production thereof
- 419 [5,172,727](#) T Annular seal arrangement and a valve fitted therewith
- 420 [5,171,025](#) T Sealing arrangement for a valve and more particularly one in the form of a multi-way valve
- 421 [5,165,700](#) T Sealing and stripper ring
- 422 [5,163,478](#) T Spool valve having improved sealing characteristics
- 423 [5,136,781](#) T Method of producing a sealing ring

- 424 [5,107,897](#) T Mounting plate
 - 425 [5,103,172](#) T Piston and cylinder device with fixed conductive guide on periphery of cylinder
 - 426 [5,102,109](#) T Hydraulic shock absorber
 - 427 [5,087,845](#) T Series electric motor with permanent magnet brake
 - 428 [5,048,569](#) T Valve component group
 - 429 [5,025,834](#) T Mounting plate storing conductor function
 - 430 [4,987,822](#) T Linear actuator
 - 431 [4,962,912](#) T Rate of flow control valve
 - 432 [4,936,193](#) T Protective device
 - 433 [4,912,291](#) T Compact proximity switch arrangement
 - 434 [4,905,730](#) T Override check valve
 - 435 [4,899,495](#) T Disc wheel sanding machine
 - 436 [4,896,700](#) T Valve array
 - 437 [4,877,058](#) T Spool valve
 - 438 [4,876,945](#) T Piston and cylinder unit
 - 439 [4,729,194](#) T Balanced orbital sander/grinder
 - 440 [4,564,043](#) T Stepping valve
 - 441 [4,471,304](#) T Fluid-powered actuator having a cylinder with magnetic field detectors thereon and a magnetized piston rod
 - 442 [4,425,073](#) T Pivottally supported gripping mechanism
 - 443 [4,336,823](#) T Solenoid valve
 - 444 [4,302,910](#) T Pneumatically operated grinding apparatus
 - 445 [4,212,320](#) T Multiway valve
 - 446 [4,199,130](#) T Valve arrangement
 - 447 [4,128,119](#) T Apparatus for processing workpieces in the form of short-length elongate timber waste into usable timber
 - 448 [4,094,384](#) T Bayonet connecting system for collector bowl attachment to connecting housing of compressed air conditioning device

[Prev. List](#) | [Top](#) | [View Cart](#)

Top

[View Cart](#)

[Home](#)

Quick

Advanced

Pat Num

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AN/Festool

PAT. NO.**Title**

- 1 [10,893,784](#) **T** [Suction hose connecting piece](#)
- 2 [10,820,766](#) **T** [Assembly of a particle collection container and cyclonic pre-separator](#)
- 3 [10,790,627](#) **T** [Connection apparatus assembly of an electrical device or of a stored energy source](#)
- 4 [10,729,299](#) **T** [Suction device](#)
- 5 [D858,238](#) **T** [Sanding and polishing machine](#)
- 6 [10,293,476](#) **T** [Stack arrangement and transport container having bus interfaces](#)
- 7 [D846,962](#) **T** [Sanding and polishing machine](#)
- 8 [D831,248](#) **T** [Hand lamp](#)
- 9 [7,861,418](#) **T** [Reciprocatory saw](#)
- 10 [7,290,967](#) **T** [Dust extractor device for a router](#)
- 11 [7,029,384](#) **T** [Grinding disk](#)

[Top](#)[View Cart](#)[Home](#)[Quick](#)[Advanced](#)[Pat Num](#)[Help](#)

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AN/Stoll

PAT. NO.**Title**

- 1 [10,820,703](#) T [Chair, particularly conference or office chair, and method for manufacturing a chair](#)
- 2 [10,820,587](#) T [Method and device for producing electromagnetic fields that influence the nervous system of insects](#)
- 3 [10,610,023](#) T [Connection assembly for a backrest and office or conference chair](#)
- 4 [10,323,344](#) T [Method for manufacturing a knitted fabric comprising a vertical yarn filament](#)
- 5 [D762,996](#) T [Office chair](#)
- 6 [9,072,509](#) T [Toggle bolt suture anchor kit](#)
- 7 [8,756,868](#) T [Eaves trough detritus deterrent appliance](#)
- 8 [8,677,695](#) T [Eaves trough detritus deterrent appliance](#)
- 9 [8,495,837](#) T [Eaves trough detritus deterrent appliance](#)
- 10 [8,485,604](#) T [Seat assembly with an elastomer torsion-spring element](#)
- 11 [8,402,795](#) T [Method for manufacturing a tubular knitted article](#)
- 12 [D663,129](#) T [Chair](#)
- 13 [D661,915](#) T [Chair](#)
- 14 [D655,101](#) T [Chair](#)
- 15 [7,765,937](#) T [Table system](#)
- 16 [D617,110](#) T [Chair](#)
- 17 [7,614,698](#) T [Chair with tilting seat](#)
- 18 [D602,273](#) T [Chair](#)
- 19 [D600,048](#) T [Folding table](#)
- 20 [7,552,975](#) T [Backrest attachment device](#)
- 21 [D590,617](#) T [Perch for sitting](#)
- 22 [D590,616](#) T [Perch for sitting](#)
- 23 [7,513,569](#) T [Synchronous office chair](#)

- 24 [7,503,626](#) T Chair having a tiltable seat
25 [7,490,901](#) T Back rest for a chair
26 [D584,066](#) T Chair
27 [D579,224](#) T Chair
28 [D579,223](#) T Chair
29 [D571,569](#) T Chair
30 [7,344,194](#) T Device for lumbar support
31 [D560,379](#) T Chair
32 [D549,975](#) T Chair
33 [D548,993](#) T Chair
34 [D548,474](#) T Chair
35 [D543,716](#) T Chair
36 [D543,374](#) T Chair
37 [7,147,288](#) T Backrest
38 [7,115,072](#) T Motion resistance apparatus
39 [D512,236](#) T Chair
40 [D512,235](#) T Chair
41 [D511,253](#) T Chair
42 [6,948,774](#) T Armrest
43 [D507,422](#) T Office swivel chair
44 [D505,798](#) T Chair
45 [6,857,704](#) T Neck support for a chair
46 [6,852,870](#) T Omega-3 fatty acids in the treatment of depression
47 [6,832,814](#) T Chair with adjustable seat depth
48 [6,832,560](#) T Work table
49 [6,829,912](#) T Method for making a textile web with a tubular knitting region
50 [6,827,402](#) T Chair with adjustable seat depth

[Next List](#) [Top](#) [View Cart](#)
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AN/Stoll

**PAT.
NO.****Title**

- 51 [D493,292](#) T Work assistant
- 52 [6,755,472](#) T Neckrest for a chair
- 53 [6,732,661](#) T Moving table flap
- 54 [D488,313](#) T Chair
- 55 [6,712,009](#) T Table with folding legs
- 56 [6,698,253](#) T Method of and arrangement for designing of tubular round knitted articles produced of a flat knitting machine
- 57 [D479,928](#) T Mechanism for a chair
- 58 [D479,066](#) T Mechanism for a chair
- 59 [6,611,730](#) T Device and method of designing knit products to be manufactured on a knitting machine
- 60 [6,609,397](#) T Method for forming new stitches on a knitting machine
- 61 [6,588,844](#) T Chair wit tilttable seat
- 62 [6,575,530](#) T Device for lumbar support
- 63 [6,564,588](#) T Method for producing tubular knitted articles on a flat knitting machine
- 64 [D473,737](#) T Control mechanism for a chair
- 65 [D471,373](#) T Conference chair
- 66 [6,415,633](#) T Flat knitting machine
- 67 [6,397,639](#) T Method of producing knitted articles with several knitting planes
- 68 [6,381,992](#) T Method of and device for transferring stitches on a knitting machine
- 69 [D451,692](#) T Chair
- 70 [6,301,939](#) T Method of producing a knitted article on a flat knitting machine

- 71 [6,240,749](#) T Flat knitting machine
- 72 [6,216,494](#) T Method of producing a knitted article
- 73 [6,196,030](#) T Knit article having several spatially overlapping structures made in a continuous knitting process
- 74 [6,192,716](#) T Method of connecting two knitted parts on a flat knitting machine
- 75 [6,170,301](#) T Method for producing a knitted article on a flat knitting machine
- 76 [6,170,300](#) T Flat knitting machine
- 77 [6,109,068](#) T Method of producing spacial, single- and multi-layer knitted articles on flat knitting machine
- 78 [6,105,397](#) T Method for producing a knitted article on a flat knitting machine
- 79 [6,092,396](#) T Knitting machine, in particular flat knitting machine
- 80 [6,085,553](#) T Method for producing a knitted article on a flat knitting machine
- 81 [6,065,311](#) T Method of producing a knitted article on a flat knitting machine
- 82 [6,050,646](#) T Backrest
- 83 [6,006,551](#) T Twin bed flat knitting machine method for widening a tubular fabric
- 84 [5,960,646](#) T Fabric take-off roller for flat bed knitting machines
- 85 [5,959,378](#) T Electromagnetic, two-phase pulse motor with two rotation directions
- 86 [5,918,483](#) T Flatbed knitting machine with sinker control for yarn loop retention
- 87 [5,834,662](#) T Arrangement for the rotary actuation of an apparatus on a chassis or foundation
- 88 [5,752,396](#) T Thread control device for flat knitting machine
- 89 [5,495,728](#) T Adjusting device for cam parts of flat knitting machines with motor pinion acting on control sliders
- 90 [5,475,990](#) T Sinker control actuator for flat knitting machine
- 91 [5,425,251](#) T Fabric take-off roller arrangement for flat bed knitting machines
- 92 [5,388,430](#) T Method of producing a fashioned, one-piece flat knitted article for a garment provided with sleeves
- 93 [5,379,612](#) T Method of producing voluminous knitted articles
- 94 [5,369,967](#) T Draw-off mechanism for a flat bar knitting machine
- 95 [5,320,294](#) T Yarn-delivery device
- 96 [5,294,178](#) T Tilt device for seat furniture
- 97 [5,284,031](#) T Knit ply fabric with connecting layer
- 98 [5,284,030](#) T Flat knitting machine stop motion assembly
- 99 [5,275,022](#) T Process for the fully-fashioned knitting of intarsia jacquard fabric
- 100 [5,241,841](#) T Knitting take-off device for flat knitting machines

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AN/Stoll

**PAT.
NO.****Title**

- 101 [5,231,854](#) T Two-bed flat knitting machine having needles and sinkers
- 102 [5,214,941](#) T Process for producing a fully fashioned flat fabric for a garment equipped with sleeves
- 103 [5,159,822](#) T Threading and yarn-changing device for yarn guides
- 104 [5,138,849](#) T Flat knitting machine
- 105 [5,109,681](#) T Device for the selectively controlled mutual displacement of yarn guides of flat-bed knitting machines
- 106 [D311,745](#) T Flat-bed knitting machine
- 107 [4,909,048](#) T Method for producing intarsia knitted goods and flat-bed knitting machine for implementing the method
- 108 [4,890,462](#) T Knitted fabric
- 109 [4,869,079](#) T Thread-tensioning and guide device for flat knitting machines
- 110 [4,866,954](#) T Flat knitting machine
- 111 [4,858,446](#) T Thread-guide arm
- 112 [4,856,104](#) T Device for the display and editing of knitting patterns produced on a flat-bed knitting machine
- 113 [4,840,046](#) T Procedure and device for ensuring a precisely positioned introduction of a substitute yarn in a knitting machine
- 114 [4,827,739](#) T Flat knitting machine
- 115 [4,821,534](#) T Apparatus for controlling the carriage drive motor of a flat bed knitting machine
- 116 [4,819,457](#) T Yarn guide element for textile machines
- 117 [4,807,451](#) T Knitted fabric winding-up device for flat knitting machines
- 118 [4,799,365](#) T Device for flatbed knitting machines for monitoring the knitwear for falling-off
T

- 119 [4,793,157](#) **T** Flat knitting machine
 - 120 [4,791,793](#) **T** Device for the offset control of the needle beds of a flat-bed knitting machine
 - 121 [4,790,153](#) **T** Safety device for flat-bed knitting machines
 - 122 [4,790,151](#) **T** Yarn stop motion for textile machines
 - 123 [4,790,150](#) **T** Flat knitting machine
 - 124 [4,787,217](#) **T** Cam carriage for flat-bed knitting machine
 - 125 [4,774,820](#) **T** Flat knitting machine
 - 126 [4,774,819](#) **T** Flat knitting machine with data processing apparatus
 - 127 [4,774,818](#) **T** Device for determining the position of the draw-down elements in flat-bed knitting machines
 - 128 [4,773,236](#) **T** Device for control of a flat-bed knitting machine
 - 129 [4,773,235](#) **T** Device for control of a flat-bed knitting machine
 - 130 [4,765,158](#) **T** Dust extraction appliance for flat knitting machines
 - 131 [4,757,698](#) **T** Dust extraction device for flat knitting machines
 - 132 [4,738,124](#) **T** Yarn feeder slide
 - 133 [4,735,066](#) **T** Flat knitting machine with bobbin holders
 - 134 [4,729,230](#) **T** Cam system for flat-bed knitting machine
 - 135 [4,723,423](#) **T** Flat-bed knitting machine having an electronic control for the movement of the needle sinker
 - 136 [4,720,985](#) **T** Yarn tension regulating device for knitting machines
 - 137 [4,715,198](#) **T** Control magnet assembly for a pattern apparatus in knitting machines for electrically controlled needle selection
 - 138 [4,713,948](#) **T** Double bed flat knitting machine with sinkers located between the needles
 - 139 [4,711,101](#) **T** Flat-bed knitting machine
 - 140 [4,703,630](#) **T** Flat-bed knitting machine having a carriage displaceable into a position for servicing
 - 141 [4,700,553](#) **T** Yarn tensioning device for flat knitting machines
 - 142 [4,686,839](#) **T** Flat knitting machine with needle selection device
 - 143 [4,680,946](#) **T** Flat-bed knitting machine having a spool table
 - 144 [4,679,413](#) **T** Flat-bed knitting machine having a spool table provided with movable yarn spool holders
 - 145 [4,667,489](#) **T** Dust extraction equipment for flat bed knitting machines
 - 146 [4,649,721](#) **T** Knitting instrument carrier for knitting machines
 - 147 [4,646,544](#) **T** Knitting expander device for flat bed knitting machines
 - 148 [4,645,248](#) **T** Device for selecting yarns for a knitting machine
 - 149 [4,643,003](#) **T** Cam system and method for combined loop formation and transfer in flat-bed knitting machines
 - 150 [4,616,488](#) **T** Single or multi-cam system for flat-bed knitting machines

[Prev. List](#) | [Next List](#) | [Top](#) | [View Cart](#)

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| PAT. NO. | Title |
|-----------------|---|
| 151 4,594,585 T | Electromagnetically-controlled flat knitting machine |
| 152 4,592,214 T | Fabric draw-off roller on flat-bed knitting machines |
| 153 4,584,850 T | Flat-bed knitting machine |
| 154 4,554,803 T | Flat-bed knitting machine having electro-mechanical selection |
| 155 4,554,802 T | Adjustment of stitch cams in a knitting machine |
| 156 4,549,412 T | Fabric take-down device for knitting machines |
| 157 4,548,057 T | Knitted fabric and method of producing the same |
| 158 4,545,219 T | Single or multi-cam system for flat-bed knitting machines |
| 159 4,535,609 T | Yarn tension device for a flat knitting machine |
| 160 4,516,412 T | Cambox for a flat knitting machine |
| 161 4,505,134 T | Flat knitting machine |
| 162 4,503,690 T | Fabric take-down mechanism for flat knitting machines |
| 163 4,503,689 T | Fabric take-down mechanism for flat knitting machines |
| 164 4,490,994 T | Flat knitting machine having needle selector device |
| 165 4,486,623 T | High-flex insulated electrical cable |
| 166 4,481,795 T | Mechanism for flat knitting machines and an operating method for the taking down of shaped knitted products |
| 167 4,478,058 T | Take down mechanism for flat knitting machines |
| 168 4,471,304 T | Fluid-powered actuator having a cylinder with magnetic field detectors thereon and a magnetized piston rod |
| 169 4,456,298 T | Apparatus for stepwise adjustment of separation between two chair portions |
| 170 4,454,731 T | Knitted fabric spreader device for flat knitting machines |
| 171 4,425,073 T | Pivots supported gripping mechanism |

- | PAT.
NO. | Title |
|-----------------|---|
| 151 4,594,585 T | Electromagnetically-controlled flat knitting machine |
| 152 4,592,214 T | Fabric draw-off roller on flat-bed knitting machines |
| 153 4,584,850 T | Flat-bed knitting machine |
| 154 4,554,803 T | Flat-bed knitting machine having electro-mechanical selection |
| 155 4,554,802 T | Adjustment of stitch cams in a knitting machine |
| 156 4,549,412 T | Fabric take-down device for knitting machines |
| 157 4,548,057 T | Knitted fabric and method of producing the same |
| 158 4,545,219 T | Single or multi-cam system for flat-bed knitting machines |
| 159 4,535,609 T | Yarn tension device for a flat knitting machine |
| 160 4,516,412 T | Cambox for a flat knitting machine |
| 161 4,505,134 T | Flat knitting machine |
| 162 4,503,690 T | Fabric take-down mechanism for flat knitting machines |
| 163 4,503,689 T | Fabric take-down mechanism for flat knitting machines |
| 164 4,490,994 T | Flat knitting machine having needle selector device |
| 165 4,486,623 T | High-flex insulated electrical cable |
| 166 4,481,795 T | Mechanism for flat knitting machines and an operating method for the taking down of shaped knitted products |
| 167 4,478,058 T | Take down mechanism for flat knitting machines |
| 168 4,471,304 T | Fluid-powered actuator having a cylinder with magnetic field detectors thereon and a magnetized piston rod |
| 169 4,456,298 T | Apparatus for stepwise adjustment of separation between two chair portions |
| 170 4,454,731 T | Knitted fabric spreader device for flat knitting machines |
| 171 4,425,073 T | Pivots supported gripping mechanism |

- 172 [4,384,741](#) **T** Tilting device for seating units
- 173 [4,375,757](#) **T** Inlet water temperature control for ice making machine
- 174 [4,366,981](#) **T** Standing work seat
- 175 [4,336,823](#) **T** Solenoid valve
- 176 [4,302,910](#) **T** Pneumatically operated grinding apparatus
- 177 [4,212,320](#) **T** Multiway valve
- 178 [4,199,130](#) **T** Valve arrangement
- 179 [4,166,352](#) **T** Hay-making machine
- 180 [4,128,119](#) **T** Apparatus for processing workpieces in the form of short-length elongate timber waste into usable timber
- 181 [4,094,384](#) **T** Bayonet connecting system for collector bowl attachment to connecting housing of compressed air conditioning device
- 182 [4,062,174](#) **T** Hay-making machine
- 183 [4,026,093](#) **T** Hay-raking machine
- 184 [4,011,912](#) **T** Unearthing device for harvesting ground vegetables, such as turnips



FIP8502

OR

3,373,299

[U.S. Pat. No. 3,373,299. (Awarded Mar. 12, 1968). Thermal Power Plant with MHD Generator, Kurt Keller, Switzerland, assigned to Escher Wyss AG, Zurich, filed Oct. 19, 1964.]

March 12, 1968

K. KELLER

3,373,299

THERMAL POWER PLANT WITH MHD GENERATOR

Filed Oct. 19, 1964

2 Sheets-Sheet 1

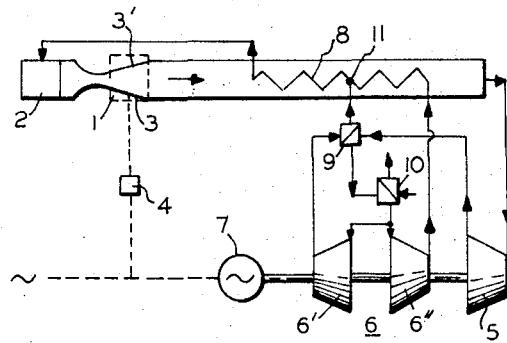


FIG.1

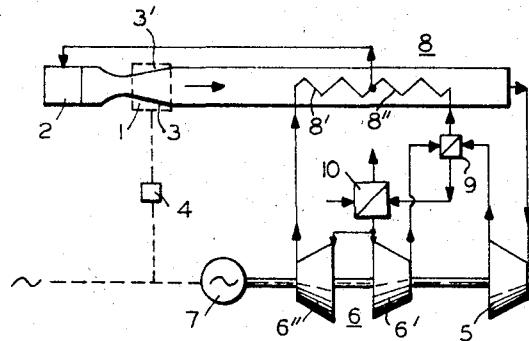


FIG.2

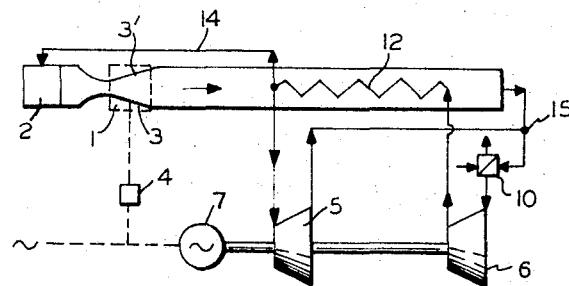


FIG.3

INVENTOR
KURT KELLER

BY

Dodge and Sons

ATTORNEYS

March 12, 1968

K. KELLER

3,373,299

THERMAL POWER PLANT WITH MHD GENERATOR

Filed Oct. 19, 1964

2 Sheets-Sheet 2

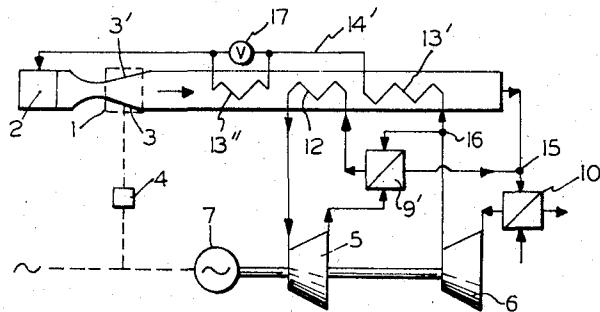


FIG.4

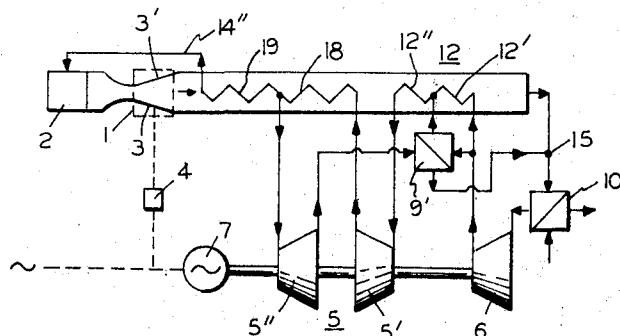


FIG.5

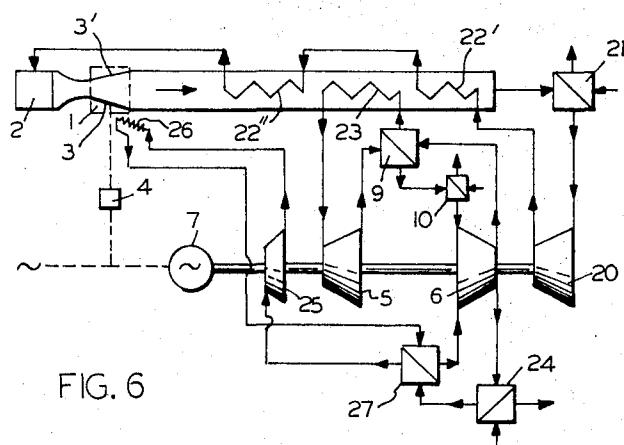


FIG.6

INVENTOR
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Dodge and Sons

ATTORNEYS

United States Patent Office

3,373,299

Patented Mar. 12, 1968

1

3,373,299 THERMAL POWER PLANT WITH MHD GENERATOR

Kurt Keller, Kusnacht, Switzerland, assignor to Escher Wyss Aktiengesellschaft, Zurich, Switzerland, a corporation of Switzerland

Filed Oct. 19, 1964, Ser. No. 404,579

Claims priority, application Switzerland, No. 7, 1963,
13,650/63

10 Claims. (Cl. 310—11)

ABSTRACT OF THE DISCLOSURE

Schemes for utilizing the waste heat of a magnetohydrodynamic (MHD) generator in a closed circuit gas turbine power plant. The gas turbine circuit may be separate from or include the circuit of the MHD generator. In the latter case, the MHD generator is located either in series with the power plant components, or in a by-pass connection between high and low pressure points of the closed circuit. A similar shunt or by-pass connection, containing a cooler and an expansion turbine, can be employed to produce a stream of low temperature gas that is utilized to cool the magnet of the MHD generator.

This invention relates to a thermal power plant with magnetohydrodynamic (MHD) generator and waste heat utilization.

The MHD generators known heretofore can be realized only between two high-temperature limits. The gaseous flow medium leaves the MHD generator at a temperature which may be more than 2000° C. Utilization of the waste heat is thus of considerable importance for the economy of the plant.

This invention now consists in that a gas turbine installation operating with closed circuit of the working gas is provided for utilizing the waste heat of the MHD generator.

In one type of embodiment, the MHD generator is in series with the components of the gas turbine plant and is located between the turbine and the compressor. The compressed working gas flowing from the compressor to the heater of the MHD generator receives heat from the exhaust gas of the generator and, prior to this heating step, a portion of the compressed gas is initially pre-heated by the expanded working gas leaving the turbine. In another type of embodiment, the MHD generator is interposed in a by-pass path extending between high and low pressure points in the closed circuit of the gas turbine plant. The closed circuit includes a heater, in which the compressed working gas flowing to the turbine is heated by the exhaust gas coming from the MHD generator, and said high pressure point may be located either between the compressor and the heater or between the heater and the turbine. In cases where the turbine has two stages, the high pressure end of the by-pass path could also be located between stages.

According to a further feature of the invention, the gas turbine circuit can be equipped with a shunt or bypass path which extends between high and low pressure points and which contains a cooler and an expansion turbine. This arrangement provides a stream of low temperature working gas which is used to cool the magnet coil of the MHD generator and thereby render it super-conductive.

Each of FIGS. 1 to 6 of the accompanying drawings shows a constructional example of the subject of the invention in simplified representation.

The MHD generator is denoted by 1. Gaseous, ionised flow medium, coming from a pre-connected heater 2, for

2

example a nuclear reactor, is led to said generator. This flow medium is raised in the heater 2 to a high temperature, for example above 2000° C. The electrical direct current generated is taken off at terminals 3, 3' and converted to alternating current in a converter 4.

The gas turbine installation has a turbine 5 and a compressor 6, the latter comprising two parallel-connected parts 6' and 6''. The turbine 5 drives the compressor 6. The surplus power is fed to an A.C. generator 7.

- 10 According to FIG. 1, the working gas coming from the MHD generator 1 and still having a high temperature first passes through a surface heat exchanger 8 and then enters the turbine 5, in which it expands to a lower pressure. It then passes through a further surface heat exchanger 9 and a cooler 10 and is then raised to a high pressure in the compressor 6. The compressed working gas discharged by compressor 6 is led to heat exchanger 8; the portion of this gas coming from compressor part 6' passing through heat exchanger 9, where it receives heat 15 from the expanded working gas leaving turbine 5, and entering heat exchanger 8 at a point 11 at which the compressed gas coming directly from compressor part 6'' has undergone preheating. After the compressed gas has passed through and been heated in heat exchanger 8, it is 20 delivered to the heater 2, thus closing the circuit. The working circuit of the gas turbine plant is therefore here connected to the MHD generator, and the same flow medium passes through it as through the latter. Since the MHD generator is connected in series with the individual 25 machines and apparatus of the gas turbine plant, it forms a component of the working circuit system of the gas turbine installation.

- 30 According to FIG. 2 the heat exchanger 8 consists of two parts 8' and 8'', through which the working gas coming 35 from the MHD generator flows in succession. The working gas coming directly from the compressor 6'' passes through the first part 8' in parallel flow, and the working gas coming from the heat exchanger 9 passes through the second part 8'' in counterflow. This arrangement permits good cooling of the parts of the heat exchanger 8, which are exposed to the hottest gas.

- 35 As distinct from the previous embodiments of the subject of the invention, according to FIGS. 3, 4 and 5, the MHD generator 1 is inserted in a by-pass connection between a high-pressure point and a low-pressure point of the closed circuit of the gas turbine installation.

- 40 According to FIG. 3, a conduit 14 branches off between compressor 6 and turbine 5, namely at the outlet side of the high-temperature surface heat exchanger 12 for the compressed working gas, and said conduit supplies part of the working gas delivered by the compressor 6 to the heater 2. This part of the working gas then flows through the MHD generator 1 and is finally returned to the gas turbine circuit at a point 15 situated 45 upstream of the pre-cooler 10, on the flow path leading from the turbine 5 to the compressor 6.

- 50 FIG. 4 shows a similar embodiment of the subject of the invention. However, in this case, heat exchanger 12 heats only the compressed gas flowing to turbine 5, and it is preceded by a further heat exchanger 9' which transfers to the compressed gas heat contained in the expanded working gas flowing from turbine 5 to cooler 10. A conduit 14' branches off upstream of the heat exchanger 9' at a high-pressure point 16 for leading part 55 of the compressed working gas to the heater 2. Thus, the same working gas quantity flows through the heat exchanger 9' on both sides of the heat exchanging walls. The branched-off working gas is preheated successively in two heat exchangers 13' and 13'' by heating by means 60 of the waste gas of the MHD generator, the heat exchanger 13'' with regard to this gas being situated up-

stream of the heat exchanger 12 and the heat exchanger 13' being situated downstream of the heat exchanger 12. The heat exchanger 13' may also be bypassed by opening a valve 17.

According to FIG. 5, the turbine 5 has two series-connected expansion stages 5', 5''. Between these expansion stages is an intermediate heater 18 heated by the waste gas of the MHD generator. A conduit 14'' branches off at the outlet of this intermediate heater, in which still a higher pressure prevails than at point 15, and leads to the heater 2 for the working gas to be supplied to the MHD generator. To this conduit 14'' there also belongs a heat exchanger 19, in which this working gas is pre-heated by the waste gas of the MHD generator.

The outlet side of the second expansion stage 5'' is connected to the point 15 situated in front of the pre-cooler 10. The working gas coming from the second expansion stage 5'' of the turbine 5, before being supplied to the pre-cooler 10, gives up heat in the heat exchanger 9' to part of the compressed working gas, which is preferably equal in magnitude to the part of the working gas flowing through the second expansion stage 5'' of the turbine 5. The heat exchanger 12, in which the working gas to be supplied to the turbine 5 is heated by the waste gas of the MHD generator, consists of two parts 12' and 12''. In the first part 12', the working gas coming directly from the compressor 6 is pre-heated. In the second part 12'', the working gas thus pre-heated is heated further, together with the compressed working gas coming from the heat exchanger 9'.

In the embodiment of the subject of the invention represented in FIG. 6, the working circuit of the gas-turbine installation is separate from the flow path of the working gas passing through the MHD generator 1. A separate compressor 20, which is connected downstream of a cooler 21, is used for delivering the compressed gas to be led to the MHD generator. In series-connected heat exchangers 22', 22'', the gas coming from the MHD generator 1 gives up heat to the gas coming from the compressor 20. The working circuit of the gas turbine installation leads through the turbine 5, heat exchanger 9, pre-cooler 10, compressor 6, again through the heat exchanger 9 and finally through a heat exchanger 23, in which the waste gas of the MHD generator gives up heat to the compressed working gas of the gas turbine installation, before said working gas is supplied to the turbine 5. With reference to the waste gas of the MHD generator 1, heat exchanger 23 lies between the heat exchangers 22' and 22''.

The MHD generator in FIG. 6 includes a cooler 26 for the magnet coil, and the gas turbine circuit is provided with a shunt path for leading low temperature working gas through this cooler. The shunt path extends between points at different pressures, and specifically between the outlet and inlet of compressor 6, and contains a cooler 24 and an expansion turbine 25, the latter being connected to deliver power to the shaft of the gas turbine installation. The cooled gas delivered to cooler 26 by cooler 24 and turbine 25 returns to the main working circuit through a heat exchanger 27 wherein it serves to cool the gas flowing from cooler 24 to turbine 25. With suitable design of the components in this shunt path, such low temperature may be attained in cooler 26 that the magnet coil becomes superconductive. As a result, it is possible to use small conductor cross sections.

What is claimed is:

1. In combination a gas turbine installation operating with a closed working gas circuit leading serially through heating means, turbine means, cooling means, compressing means and again through said heating means, in the order stated; and a by-pass connection between a high-pressure point and a low-pressure point of said closed circuit, comprising a heater and a MHD generator through which part of the working gas flows serially in the order stated from said high-pressure point to said

low-pressure point; said heating means comprising a high-temperature surface heat exchanger for the heat transfer from the gas coming from the MHD generator, to the compressed gas to be supplied to the turbine means.

2. The combination defined in claim 1 in which said high-pressure point of the closed circuit is situated between said high-temperature surface heat exchanger and the turbine means, and said low-pressure point of the closed circuit is situated in front of the cooling means.

3. The combination defined in claim 1 in which the closed circuit comprises a further surface heat exchanger for the heat transfer from the gas flowing from the turbine means to the cooling means, to at least part of the compressed gas coming from the compressing means.

4. The combination defined in claim 3 in which said high-pressure point of the closed circuit is situated between the compressing means and said further surface heat exchanger, and in which said by-pass connection comprises a heat exchanger for the heat transfer from the gas coming from the MHD generator to the gas to be supplied to the heater.

5. The combination defined in claim 3 in which the turbine means comprise two series-connected expansion stages and a further high-temperature surface heat exchanger is provided for the heat transfer from the gas coming from the MHD generator, to the gas flowing from the first of said expansion stages to the second expansion stage.

6. The combination defined in claim 5 in which said high-pressure point of the closed circuit is situated between said further high-temperature surface heat exchanger and the second expansion stage of the turbine means.

7. The combination defined in claim 1 in which said by-pass connection comprises at least one heat exchanger for the heat transfer from the gas coming from the MHD generator to the gas to be supplied to the heater.

8. A thermal power plant comprising in combination an MHD generator; a heater for supplying hot working gas to the generator; a gas turbine installation having turbine means, cooling means and compressing means; flow connections defining a closed circuit for working gas leading serially through the heater, the generator, the turbine means, the cooling means, the compressing means and again through the heater, in the order stated; a high temperature surface heat exchanger for transferring heat from the working gas leaving the generator to the working gas flowing from the compressing means to the heater; and a second surface heat exchanger for transferring heat from the working gas leaving the turbine means to part of the working gas leaving the compressing means; the closed circuit having two branches for the compressed working gas leaving the compressing means, the first branch leading directly to the high temperature surface heat exchanger, and the second branch leading through the second surface heat exchanger and opening into the high temperature surface heat exchanger at a point at which the working gas arriving through the first branch has already received heat in the high temperature surface heat exchanger.

9. A thermal power plant comprising in combination an MHD generator; a heater for supplying hot working gas to the generator; a gas turbine installation having turbine means, cooling means and compressing means; flow connections defining a closed circuit for working gas leading serially through the heater, the generator, the turbine means, the cooling means, the compressing means and again through the heater, in the order stated; a high temperature surface heat exchanger for transferring heat from the working gas leaving the generator to the working gas flowing from the compressing means to the heater, the heat exchanger having first and second parts through which gas coming from the generator flows in succession; and a second surface heat exchanger for transferring heat from the working gas leaving the turbine means to part of the working gas leaving the compressing means; the

closed circuit having two branches for the compressed working gas leaving the compressing means, the first branch leading directly to the first part of the high temperature surface heat exchanger and causing compressed gas to pass through this part in parallel with the gas coming from the generator, and the second branch leading to the second part of the high temperature heat exchanger through the second heat exchanger and causing compressed gas to pass through this part in counterflow to the gas coming from the generator.

10. A thermal power plant comprising in combination an MHD generator having a magnet winding provided with a cooler; a heater for supplying hot working gas to the generator; a closed circuit gas turbine installation; means for utilizing the heat content of the gas leaving the generator to produce power in said closed circuit gas turbine installation; a shunt connection between high and low pressure points in said closed circuit installation and extending through the cooler of the magnet winding; and a second cooler and an expansion turbine located in the

shunt connection and arranged to lower the temperature of gas flowing to the cooler of the magnet winding.

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