RECENTLY PATENTED INVENTIONS. Engineering Improvements.

STEAM-GENERATOR. - ROGER DAMONTE. deceased, Joseph A. R. Damonte, Administrator, 7007 Magazine Street, New Orleans, La. The steam-generator is of the type having one or more coils or convolutions, through which water circulates from a standpipe. The novel feature of the present improvement is the provision of a rotary valve for controlling the escape of steam from the several pipe coils, whereby the latter can be conveniently cleaned whenever required.

Special Implements and Devices.

REIN - HOLDER. - CARL P. UHLMANN, Quincy, Ill. The rein-holder is characterized by its simplicity of structure and by the ease with which it can be attached to a dashboard or any other convenient part of a buggy. The cylinders reins are imprisoned between two which are eccentrically pivoted on a plate, one end of which is bent over to form a guard. Disposed within the guard and connecting the cylinders is a spring, which expands and permits the reins to be easily inserted between the cylinders, and the elasticity of which holds the reins clamped with slight pressure.

TURPENTINE HACK AND SHAVE.—JOHN the crude turpentine gum from pine trees, a peculiar tool called a "hack" is employed. The present invention provides a new form of hack which is adapted for adjustment of its cutting blade. The blade can be projected more or less from the handle and held at any desired B. Porter, Berryville, Ark. The inventor has inclination.

FORCEPS .- DAVID F. BOWERSOX, Aaronsburg, Pa. The forceps are designed especially for veterinary use in performing operations in the throat of an animal. The construction of the instrument is such that operations can be performed without in any way endangering the animal by laceration.

Mechanical Devices.

HEMMING AND HEMSTITCH ATTACH-MENT.-JOSEPH W. SIMONS, Portchester, N. Y. Heretofore it has been necessary to crease and baste the hem down in order to bring the hem to a line with the drawn threads and to have the ends even, when the operation of hemming is accomplished. The improved device dispenses with the operation of creasing and basting and proor hem. The operator can start from any point on the garment and continue around to a point about the width of the hem from the starting point.

according to the intensity of the light. Thus and gas are successively passed, the chamber for a land and sky subject the darker land containing pebbles or some finely-divided subforeground is subjected longer to the actinic ac- stance to facilitate the aeration of the water. tion of the rays of light than the sky portion; uniformly graduated to insure an even or vided of sufficient size to enable it to be congradual exposure of the plate. The charveniently carried to a fire. The reservoir is acteristic feature of the shutter is an exposure opening arranged to be gradually inof exposure.

RAZOR-STROPPING MACHINE.—ALBERT sired. SILBERSTEIN, Manhattan, New York city. The inventor has devised a razor-stropping BACH, Joplin, Mo. The invention relates to machine which will readily accommodate a structure for cleaning files—that is to say, handled-razors having blades of different sizes. The razor can be conveniently placed in position in the holder and securely held. machine gives the blade the desired inclined position while drawing it over the strop in terial and cloth, such parts being secured to either direction, so as to present the entire gether and worked edgewise against the file. cutting edge of the blade to the strop at each forward and backward movement.

SPOKE-TENONING AND CUT-OFF MA-CHINE.—DEFIANCE MACHINE WORKS, Defiance, Ohio. Mr. Charles Seymour has invented the teeth of saws, whereby any desired degree extending the front edge of the body in an unfor the Defiance Machine Works a spoke-tenon- of bevel can be given to the cutting edges of broken line straight for a portion of its length ing and cut-off machine which is designed for the saw-teeth, and a suitable rake or forward builders of heavy wagons. The machine is arpitch to the teeth.

ranged to cut off the tread ends of the spokes

NIPPLE.—FERDI to equal length, to reduce a wheel to the proper diameter, to cut the tenons of any desired size on the ends of the cut-off spoke and to finish the ends completely to receive the fellies.

AUTOMATIC WHEEL-RIM-FINISHING MACHINE.—Defiance Machine Works, Defi- | Solid rubber nipples would not be so objectionance, Ohio. Like the spoke-tenoning and cutoff machine described in the foregoing notice. the present machine, which is also an invention of Mr. Seymour's, is designed to be used by builders of wagons and makers of wheels. By means of this machine the tread of the wheel is very precisely dressed, and accurately finished relatively to the hub. The sides of the rim can be planed either straight or to a bevel, leaving the rim perfectly smooth so as to re quire no hand labor.

CUTTER-HEAD. - DEFIANCE MACRINE WORKS, Defiance, Ohlo. In connection with Two of these sad-irons have been invented the previously-mentioned spoke-tenoning ma-

ticular work which was to be performed by that machine. The body of the cutter-head for the particular work which was to be performed by the machine. The body of the cutter-head has radial guideways in which the cutter-carriers slide. On the body a cam is mounted to turn, having on its face a spiral cam engaging teeth on the carriers. Bolts are passed through the body to hold the cuttercarriers rigidly together. The operator can move the carriers and consequently the cut-ters outward or inward to cut miters of the desired thickness.

APPARATUS FOR FLOATING VESSELS. ALBERT S. DEBOSE, Cuero, Tex. The invention relates to a means for assisting in floating vessels that have run aground; and it consists in certain novel mechanism for raising or partly raising the vessel, combined with means for hauling the vessel aft when it has been so raised. Beams provided with racks are adapted to work vertically on the side of a vessel. which beams can be raised and lowered as well as guided vertically. A hauling rope is connected with the foot of each beam. A pullev is attached to the vessel's hull at one end, the rope extending back over the deck. By adjusting the various beams and forcing them downward the vessel will be wholly or partly raised; and when this has been done, by hauling on the ropes the beams will be tilted and the ves-P. COUNCIL, Jr., Wananish, N. C. In removing sel moved astern or forward, as the case may

Miscellaneous Inventions.

SURVEYOR'S SOLAR COMPASS.—JOSEPH sought to devise a surveyor's compass which will not be subject to the defects of the magnetic needle. Two regular and systematic changes (secular and diurnal) must albe calculated and allowed for in the use of the magnetic needle. These separate each survey from its predecessor over the same lines, necessitating a random or trial line to re-establish the variation of the needle. By reason of local magnetic ore and electrical disturbances, the magnetic needle is ant to be erratic, and, therefore, untrustworthy at times. The present invention is designed to overcome The present invention is designed to overcome tan, New York city. The rack is to be used these difficulties and to that end provides for display-bottles containing extracts, media compass without a magnetic needle. The north and south positions are established through observations taken from the sun in its relation to the earth.

HAND-TRUCK .- HENRY DEERING, Minnesota City, Minn. The hand-truck is of the duces more perfect work. Any resistance kind used for the transfer of goods and bagged or friction on the material is avoided. In circular articles (pillow-cases and skirts) of construction are provided by which the the fold-gage is turned from within the fold truck is adapted for the reception and movea proper manner. An adjustment of the parts is permitted to adapt the truck for ordinary

and the entire exposure is continuous and Rutherford, N. J. A reservoir or tank is proveniently carried to a fire. The reservoir is water or a chemical solution. The device creased in size while moving over the field is provided with a pump and short hose by of exposure.

which the liquid is thrown to the point de-

FILE-CLEANER. — GEORGE W. SCHELLENfor removing from between the ridges of the , file such matter as may accumulate therein. The Mr. Schellenbach has devised an arrangement lined of alternating layers of open-work metal ma-

> FILE-HANDLE AND GUIDE.—TIMOTHY W. MILLER, Phœnix, Ariz. This file-handle has a novel device which guides the reciprocating movement of an attached file used to sharpen

rubber to re-expand and the milk to flow. This be readily removed. operation tires the infant and chills the milk by reason of the entrance of atmospheric air. able, but cannot, on the other hand, be readily the invention, and date of this paper. or thoroughly cleaned. The present invention relates to an insertion-piece for the usual rubber nipple which has for its object to obviate all drawbacks. Only wen the sucking power of the child is no longer sufficient to take up the liquid contained in the bottle, is the taking of food interrupted.

SAD-IRONS.-MICHAEL JOYCE. Salt Lake City, Utah. The handle can be attached to or detached from the iron at will, so that one handle can serve for a number of irons. by Mr. Joyce. In the first the base has a chine, Mr. Seymour found it necessary to longitudinal groove, at each side of which invent a novel cutter-head for the par- a recess is formed having an undercut por-

tion. The groove has a cavity in its bot tom. The handle has a bar capable of lying in the groove of the body; and the bar has transverse projections adapted to enter the undercut portions of the recesses. A springpressed dog is mounted on the bar and has its nose adapted to project through the bar to engage in the cavity in the base. In the second sad-iron the handle has two parallel bars arranged one above the other; the lower bar has projections lying in the undercut walls in the groove in the body and has also a Tshaped groove at one end of which an opening is located. The dog is set in the groove and conforms with the shape, the transverse part or T-shaped head of the dog forming a pivot and the bill of the dog at the opposite end extending through the opening in the lower bar, whereby to engage the body.

RAILROAD OR STEAMBOAT TICKET .-GEORGE B. EDGAR, Jr., and BENJAMIN F. DAVIS Winfield, Kans. With this ticket an agent's stub contract and coupons are combined, forming a portion of the ticket, the ticket being in the form of a double sheet. This ticket when sold cannot be resold through a "scalper," or transferred to another person without the conductor or person collecting the tickets being enabled to detect the transfer.

CARD - HOLDER AND MEMORANDUM BOOK.—David T. Helprin, Manhattan, New York city. The object of the invention is to provide a card-holder and memorandum-book arranged conveniently to hold visiting cards, business cards, and the like, and to provide detachable leaves for noting memoranda. When the memorandum-book has been used up, a new one can be substituted, and the old leaves torn out.

BAND AND SHOE FOR TANKS .- JAMES HATTELY, Seattle, Wash. Mr. Hattely has devised a contractible band or hoop to hold the staves of a tank together. The band is strengthened where one of its ends engages with the abutting shoe therefor, so as to render the band very strong and durable at a point which is weak in bands of ordinary construction.

DISPLAY-RACK .- GUIDO HECKER, Manhatcines or the like, candies, wax, etc. The rack is light, yet strong and serviceable, comparatively cheap to manufacture and can be used as an advertising medium so as both to display and advertise the goods, thereby obviating the use of extra banners and signs.

EXHIBITOR FOR PICTURE-FRAME MOLD INGS.—CARL. A. ANDERSON and GEORGE D. PALM, Worthington, Minn. By means of this improved apparatus one or more picture-frame ment of large loads and their discharge in moldings can be conveniently examined and the effective frames made of different moldings when seen with the same picture can be quickly determined. A distinguishing feature of the apparatus is an arrangement of mir-CURTAIN-SHUTTER. — WILLIAM F. Fol- CARBONATING AFFARALOS.—PRING FOR vertically at a norizontal angle of the provision of supports on the invented an improved curtain-shutter vention relates to an apparatus for carbonating another and the provision of supports on the mirrors for the frame moldings to be exhibited invented and the provision of supports on the mirrors for the frame moldings to be exhibited as a container is prowork, and which is arranged to give a convided for the water. In this container a ited. The mirrors revolve horizontally and retinuous or time-varying exposure of the plate, chamber is situated through which the water the picture is reflected in the mirror with a particular molding.

SHADE-BRACKE'T .- WILBERT O. PERSON, FIRE-EXTINGUISHER. - FERNANDO YOST, Marinette, Wis. The opening for the rollerstud is so constructed as to permit the ready insertion and removal of the roller-stud when the bracket is tilted or slightly turned on its filled with a liquid, which may be either plain pivot. The bracket is pivotally mounted and has its opening for the roller-stud formed on the face next to the roller with an inclined surface leading to the stud opening, and arranged to guide the stud into the opening and to furnish a path through which the stud may be removed when the bracket is tilted.

Designs.

DISPLAY-BOX.—TERENCE F. CURLEY, 12 and 14 Warren Street, Manhattan, New York City. The display-box has as its essential feature a concave top which is inclined. In this concave top a pen-knife or similar article is to be laid for the purpose of advantageous display.

HAMMER.—HARRY McDERMOTT, Chicago, Ill. The outline of the body and the claw is continuous and unbroken. This is secured by from the lower end of the head to a point where it crosses the line of the head-shank, and hen curving rearwardly. The claw is a dis-Germany. Ordinary rubber nipples for milk tinctly novel formation, having a greater length bottles are in a very short time squeezed flat, and sharper inclination than the ordinary hamand must be released by the child to permit the mer. By means of this novel claw nails can

Note.—Copies of any of these patents will be furnished by Munn & Co. for ten cents each. Please state the name of the patentee, title of

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending

November 19, 1901,

		351
;-	1	686.844
g	Air motor, C. L. Davis	686,772
s e	Ayle hoy dust guard car S. A. Crone	686 715
;- 8	Axle box dust guard, car, S. A. Crone Bag. See hot water bag. Bag, B. Arkell	686,877
o e	Bag holder, K. D. Thompson	686,899 686,995 686,948
1	Bag or sack, W. N. Green	686,847 686,961
r	Battery separator, storage, R. N. Chamber- lain	686,799 686,886
g	Bag. See hot water bag. Bag, B. Arkell. Bag, G. P. O. Heroux Bag holder, K. D. Thompson. Bag lock, money, H. E. Nason. Bag or sack, W. N. Green. Barrel heading machine, J. W. Angus. Barrel swing, J. R. Barnes. Battery separator, storage, R. N. Chamberlain Bearing for centrifugal apparatus, cushioned, O. Ohlsson. Bed, invalid, W. A. Nason. Bet or strop splicer, R. E. Cain. Bicycle lock, C. Huscher.	686,753
d t	Belt or strop splicer, R. E. Cain	686,831 686,711 686,940
t	Bird trap, J. B. Barry	686,800
r	Trainer Blowpipe, D. C. Patterson. Boiler, A. H. Macarthy Boiler setting and support, H. L. Van Zile. Boiler water indicator and recorder, steam, D. Moore	686,758 687,043
_	Boiler setting and support, H. L. Van Zile Boiler water indicator and recorder, steam, D. Moore	686,787 686,861
s,	D. Moore Boilers, stay for fire boxes in locomotives, marine, or other, F. W. Stroudley Bolts, machinery for manufacturing, J. Bactosik Bonding plug, W. S. Jones. Boring and drilling machine, B. E. Hervey. Bottle, J. W. Jackson.	686,958
-	tosik Bonding plug, W. S. Jones	686,700 686,941
n	Bottle, J. W. Jackson. Bottle, siphon, D. Landau. Bottle stoppering machine, J. & J. A. But-	687,025 687,156 687,159
r e	Bottle stoppering machine, J. & J. A. But- kus	687,118
3	Box, M. L. Hirsch	686,808 687,137 687,127
-	kus Box, M. L. Hirsch Box hook, B. D. Druen Bracket, J. E. Chapman Brick and tile furring or facing for walls, combined, D. W. Anderson. Brick for making structures fireproof, D. W. Anderson	687,103
0	Anderson Brick or combined brick and tile, D. W. Anderson Brick or combined brick and tile, D. W. Anderson Bridle blinder, C. Baer Brush, shoe, W. T. Braxton Brush, tooth, C. W. Richards Buckle, E. Hutson Buckle, E. Rees	687,105
,	Bridle blinder, C. Baer	687,104 686,698
e 1	Brush, tooth, C. W. Richards	686,7 0 8 686,764 686,853
y S	Buckle, E. Hutson Buckle, F. Rees Buckle, G. N. Clark Buckram fabric, woven, H. H. Shumway	686,864 686,934 686,993
	Burners. See gas burners.	
S	issue Button fastener, H. G. C. Horning. Buttoning device, collar, G. S. Dolloff Cabinet for roll goods, storage, measuring, and folding, F. E. Myers Camera, roll, J. A. Pautasso Camera support, tripod, C. Whetham Camera setc. adulating device for E. O.	11,947 687,028 687,135
l S	Cabinet for roll goods, storage, measuring, and folding, F. E. Myers	686,828 686,987
s	Camera support, tripod, C. Whetham Cameras, etc., adjusting device for, E. O.	686,872
1	Kolander Can fastening, C. E. Hinman Can making machine, W. H. H. Stevenson.	687,183 687,026 686,866
	Kolander Can fastening, C. E. Hinman Can making machine, W. H. H. Stevenson. Cane carrier and feeder, H. Wicks. Car, B. Bulkeley. Car coupling, W. A. Palmer Car door, E. S. Barreiraa. Car, dump. J. B. Rhodes.	687,095 687,116 686,756
1	Car coupling, W. A. Fainer Car door, E. S. Barreiraa. Car, dump, J. B. Rhodea. Car fender, C. H. Hofmeister. Car seat, E. T. McKaig. Car, steel, F. H. Kindl. Car tramway, street, F. B. Anderson. Car wheel, mine, F. C. Hockensmith. Cars, swinging door for freight, Muller & Jessen Cars, system of electrical propulsion for rail-	686,963 686,763 686,969
•	Car seat, E. T. McKaig. Car, steel, F. H. Kindl.	687,164 687,034
1	Car wheel, mine, F. C. Hockensmith Cars, swinging door for freight, Muller &	686,797 687,027
-	Jessen	686,902 686,768
	Carpet fastener, G. L. Webb	686,789 686,938 686,727
	Casting mold, metal, Price & Thackray Cattle guard, A. I. Shaw	686,952 686,912 686,781 686,917
e	Centrifugal machine, S. A. Baker	686,917 686,977
5	Cars, system of electrical propulsion for railway or other, G. J. Scott. Carpet fastener, G. L. Webb. Cart, J. C. Henderson. Casting box, L. Grossman. Casting mold, metal, Price & Thackray. Cattle guard, A. I. Shaw. Cement kiin, J. D. Swindell. Centrifugal machine, S. A. Baker. Chain driving, J. S. Kidd. Chatelaine, C. Blust. Cherries, etc., machine for removing stones from, W. P. Harris. Chuck, automatic drilling and tapping, T. Wietemann.	686,885 687,022
9	Chuck, automatic drilling and tapping, T. Wiedemann Churn, N. Monday	687,096 687,047
9	Wiedemann Churn, N. Monday Churn, E. R. Deming Churn, C. Franklin. Cigarette machine cutting mechanism, J. Mahony Circuit hreaker, R. H. Read Circuit breaker, automatic, H. P. Ball Clay ballast, apparatus for use in producing burnt, Bennett & Forgham Clevis, M. Pyle Clip, T. K. Davison.	687,132 687,182
	Mahony	687,162 687,065 686,918
t i :	Clay ballast, apparatus for use in producing burnt, Bennett & Forgham	686,964 686,761
	Clip, T. K. Davison	687,129 687,064
-	Clothes wringer, T. Hefteman. Clutch, friction, M. Campbell. Coffee pot, H. Ricker	686,898 686,923 686,989
, 	burnt, Bennett & Forgham Clevis, M. Pyle Clip, T. K. Davison. Clothes line attachment, W. W. Pumyea. Clothes wringer, T. Heffeman. Clutch, friction, M. Campbell Coffee pot, H. Ricker. Coloring matters for luster ware, preparation of, G. Alefeld Combination seat, I. N. Stark Conduits, bushing for interior, Bossert & Fozenberger	686,695 686,914
s l	Conduits, bushing for interior, Bossert & Fox- enberger	686,704 687,101
1	Cooler, C. Zimmerman. Coop, exhibition, E. S. Freeman. Cork puller, J. J. Schermack. Corn receiving and carrying device, C. Bur-	687,101 687,150 686,908
1	Corner post and joint. J. E. & C. B. Brown.	687,117 687,114
7	Corrugated tube, J. Macphail	686,818 686,971 687,038
	James Cultivator, A. C. Lindgren. Cup or plate holder, E. K. Hallenberg Curling tongs heating apparatus, H. Hempel. Current system, alternating, C. P. Steinmetz	687,038 687,020 686,731
1	Current system, alternating, C. P. Stein- metz Current transformer A R Except	687,078 687,141
ì	Curtain fixture, M. A. Gaugh Curtain pole fixture, C. R. Bell	686,894 687,110
•	Current system, alternating, C. P. Steinmetz Current transformer, A. R. Everest. Curtain fixture, M. A. Gaugh. Curtain pole fixture, C. R. Bell. Curtain stretcher, F. T. Griffin. Crystallization, K. Kiefer. Cyanamids, making, J. Pfleger. Cyanids, making, J. Pfleger. Damper, stove, G. W. Williams. Die press, A. W. & A. H. Roovers. Die press, A. W. & A. H. Roovers	687,018 686,978 686,950
,	Cyanids, making, J. Pfleger	686,949 686,793 687,167
š	Die press, coin controlled, A. W. & A. H. Roovers	687,168
- İ	Dimethylamidodimethylphenylpyrazolon and making same, acid compound of, A. Ammelburg	686,999
t ¦	melburg Dimethylamidodimethylphenylpyrazolon and making same, neutral compound of, A. Ammelburg	686,998
- ; 1	Ammelburg Disinfectant, making a, Kendrick & Dixon Disinfecting and hair drying apparatus, H. Sonnen	686,855 686,994
- 1 i	Sonnen Sonnen Sonnen Distance instrument, Searle & Saegmuller. Diving dress, F. H. Sprang Door fastener, sliding, J. T. Hicks Door hanger, A. Rochwite. Door hanger, W. B. Smith. Dough divider, F. H. Van Houten. Draft connection, A. T. Wentworth. Dram trap, G. A. Schillinger Drawer hanger, bureau or other, C. A. Snook	686,770 687,077 686,732
	Door hanger, A. Rochwite	686,732 686,766 686,774 687,088
: i	Draft connection, A. T. Wentworth Drain trap, G. A. Schillinger	686,790 686,909
į ا	Drier, F. I. Post et al	686,777 687,061
	Schumann Schumann Schumann Schumann Schumann Schumann Schumann Schumann Schumann Strick Schumann Schum	687,072
, i	The self entered and because for platons from a	687,171 686,722
	combines, C. D. Golden. Electric battery, E. F. Callender Electric circuit system, F. E. Case. Electric conducting cable, J. D. Peachey.	687,121 687,124 686,832
	Electric machine brush holder, dynamo, G.	686,836
	Heidel Electric machine, dynamo, Langdon-Davies & Soames	686,729 686,856

35 2		Scientific	American
Engine starting device, explosive, W. L. Walton	86,870	Numbering machine, Harris & McNutt 686,728 Oil burner, A. J. Blackford 687,111	Tube, J. Macphail
T Grieve 6	87,017 86,706 86,740	Oiling device, automatic, J. D. McFarland, Jr. 686,863 Ore separating machine, S. R. Krom 686,741 Package, G. L. Zucker 687,174	tion of, J. Macphail
Envelop opener, H. H. Bowerman 686,705, 6 Evaporator, J. E. Kohn	80,800 (Packing and display hox, C. A. Lindsay 687,039 Packing for cold vapor machines, E. Josse. 686,737 Padlock, W. R. Ballou	Twisting machine, A. Goss
Eyeletting machine, P. R. Glass, 686,927, 686,928, 6 Faucet operating device, W. M. Powers 6 Feeder, boller, J. H. Davis	87.015	Pail or bucket, C. E. Bertels 686,841 Paper fabric, B. Arkell 686,878 Paper, making crinkled, B. Arkell 686,879 Party line selector system, T. C. Drake 686,925	Uterine curette, S. D. Bowker. 687,112 Valve, C. E. Huxley. 686,854 Valve, W. L. Logan 687,041 Valve, air retaining, Kelly & Hazard 686,976 Valve, automatic, C. L. Fortier. 687,148
Feeder, boiler, J. H. Davis	86,757 86,748	Party line selector system, T. C. Drake. 688,925 Pattern cutting machine, C. E. Reed. 687,066 Paving block, D. W. Anderson. 687,106 Pen, fountain, J. F. Betzler. 686,920 Pen, fountain ruling, H. P. Havens. 687,023	Valve for compressors, pressure, E. Josse 686,736 Valve, gate. J. H. Bickford 686,703
Fences, metal post for wire, E. Wheeler. 6 Fertilizers, making, M. M. Lipps. 6 Fire escape, J. Michaelsen. 6 Fire escape, H. O. Cease. 6	87,093 86 744	Photographs in natural colors, apparatus for taking and exhibiting, L. D. du Hauron. 686,897	Valve gearing, A. H. Schmidt. 687,070 Velve, liquid controlled, S. Forter. 686,846 Valve or cock, Grouvelle & Arquembourg. 686,966 Valve, reducing, J. Westley. 686,791 Yapor hurner, H. F. Smith. 687,075
Fire extinguisher, A. C. Badger	86,931	Photography, producing plastic articles by the aid of, M. R. d'Asar	
matic, C. L. Fortier. 6 Fireproof blind and door, W. R. & R. H. Kinnear 6 Fish dressing machine, A. W. Funk 6 Flaying knife, R. Appel. 6 6	87.035 L	Pictorial device, J. A. Imhof. 687,155 Picture exhibitor, L. Breton 686,965 Pitting machine, O. M. Wolff 686,875 Plane, divided, H. A. Verge, reissue 11,946	Vehicle frame, A. L. Kull
Flush bolt, H. G. Karrenberg	86,913 87.032	Planter, corn or cotton, C. L. Ferriott 686,893 Plow, F. J. Lehner	Vending machine, automatic, O. Jaeger
Douglas 6 Folding brace, L. B. Jeffcott 6 Folding case, J. T. Cathcart 6 Folding table, E. J. Thomas, Jr. 6	87,031 87,125 87,081	Pole cap, wagon, E. C. Rassel	R. Maine 686,747 Wagon jack, F. P. Lutz. 686,745 Washers, see wool washer. Water bag stopper holder, D. B. Martin. 687,046
Form, bust, E. H. Wright	87,099 86,837 87.040	Heine 686,937 Press, S. J. Webb. 687,092 Pressure regulator, A. W. Cash 687,092 Printer's ink fountain, J. W. Eggleston 686,718 Printing machine cylinder, J. & W. Hunter 687,030	Water flue boiler, vertical, J. Urquhart, Sr. 686,868 Water heater, R. J. Main
		Printing press, J. L. Firm 686,926 Propelling and steering of boats, M. J.	Water tube boller, R. C. Peabody 686,759 Weighing apparatus, automatic, G. Hoepner 686,851 Well bailer, W. Plotts 686,951 Windmill coupling, D. M. Hatch 686,848
Garment fastening, A. Osterwald. Garment fastening, A. Osterwald. Garment hanger, P. F. Denning. Garment hook, J. W. Granger. Garment press, J. T. Beall. Garment supporter, J. W. Conboy. 66	87,016 86,701 86,887	Steffens 686,780 Pulp screen, centrifugal, J. H. Baker et al. 686,962 686,939 Pump oll. C. F. Rigby 687,067	Window corner post, J. W. Coulson 687,003
Garment supporter or fastener, L. Ackerman 66 Garment supporting clasp, J. F. Atwood 66 Gas, air, etc., apparatus for compressing, C.	86,693 86,880	Pump oil, C. F. Rigby 687,067 Punch press, M. Guett 686,967 Rail bond, C. Walther 687,091 Rail joint, O. P. Andersson 688,696 Rail joint, J. A. Thompson 687,082 Rail way and railway security, J. N. Young 687,100	Window screen, C. A. Long. 686,981 Window, self closing, Van Noorden & Smith 686,869 Wool washer, C. E. T. Scribner 687,073 Wrench, T. E. Smythe 686,776 Wrench, H. T. Neff 687,053
S. Snell 68 Gas burner, W. R. Kloeb	86,876	Railway and railway security, J. N. Young. 687,100 Railway brake, A. Greene, reissue	Wringer, clamp, H. J. White 686,873 Writing machine, W. D. Smith 686,775 Zinc ores, treatment of, H. M. Taquet 686,915
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