### RECENTLY PATENTED INVENTIONS. Agricultural Implements.

BINDER ATTACHMENT. - WILLIAM M. CLARK, Boscobel, and ALBERT M. DAVIS, Madison, Wis. This invention relates to a binder-breastplate which is mounted to move in called upon to perform.

knives are in position in the bar they are edges of the knives is automatically taken up. with the blocks whenever desired.

### Vehicle Accessories.

AXLE-BOX WASHER. — DR. JAMES W. BRYANT, Crewe, Va. The invention is an improvement in washers and boxes for vehiclewheels, in which a metal ball-bearing spring washer is used in place of the ordinary flat leather or metal washer. The objects of the improvement are to prevent friction and the consequent wear of the several parts, thus rendering the vehicle more lasting; to reduce the draft of the vehicle; and to prevent the disagreeable clicking sound heard in all vehiclewheels after slight use, due to wear of the

### Engineering Improvements.

AUTOMATIC BOILER-FEEDER.—HENRY J. DAVIS, PLAYFAIR G. AULT and JAMES H. WIDE-MAN, Birmingham, Ala. These inventors have devised an improvement upon boiler-feeders for which they have received U.S. Letters Patent. These patents cover certain constructions, combinations, and arrangements of floats and connected mechanism for actuating such valves, the whole being so arranged in connection with a tank as to recharge a boller automatically whenever the water level thereimprovements in the construction and arrangements of valves and connected mechanism, with a water-tank, and a preliminary water-heater and steam-condenser whereby practical advantges of considerable importance are se-

STEAM-ENGINE .- ROBERT H. BOTTS. Richmond, Cal. Mr. Botts has devised a very light

### Metallurgical Apparatus.

GUIDE FOR STAMP-MILLS. — EDMUND MAJOR, Denver, Colo. The guide consists of front and back clamping plates, and a tie-rod or bolt having an enlarged or swaged portion intermediate of its ends to engage one of the clamping-plates and hold it in position independently of the other plate. One end of the tie-rods serves to hold the other clamping-plate. Should one of the bolts break, the other will hold the parts in place until repairs can be made. The swaged portions on the bolts cause the back plates to be held in position independently of the front plates, and owing to the peculiar construction of these parts they are all held with the autmost security.

CORONET-ROLLS. — ALBERT C. CALKINS, Los Angeles, Cal. In the assay-laboratory considerable difficulty has been experienced in inserting the bullion button between the rolls. The present invention is in the nature of a simple, compact, and powerful little machine designed to insure the positive feed of any bullion button inserted between the rollers. The machine is conveniently manipulated and quickly rolls the bullion button into foil or strips of the desired thickness.

AMALGAMATOR.—Hugh M. RALPH SAILEY, Libby, Mont. The object of the invention is to provide a shaking amalgamating-pan of simple construction, so arranged that the pan can be easily removed from its supporting frame, but held perfectly solid when in place. The pan is supporting a skeleton frame. A bolster is secured to the frame and mounted to slide on the lower portion of the table. A bolster for the upper frame is also provided, consisting of removable sections. Slide-bars are attached to the bolsters and move in boxings on the table. The bolsters are connected with a crank-shaft. A lateral reciprocating motion is imparted from the The pasteboard body and bottom of the basket crank-shaft. In operation the machine will be are rendered water-proof by the application of placed in position in lieu of the stationary plates now used in stamp-mills and receive the slime or crushed ore from the battery constantly. The table or pan, as it reciprocates, causes the gold to amalgamate faster and more thoroughly thon any stationary pan.

### Mechanical Devices.

SPEED-CHANGING MECHANISM.—Defi- the invention, and date of this paper.

ANCE MACHINE WORKS, Deflance, Ohio. George A. Ensign, well known for his numer ous inventions in woodworking machinery, has devised an improved speed-changing mechanism for axle-shaping machines. The mechanism is arranged automatically to change the speed of a carriage or other movable part of a machine unison with the needle. As the needle em- traveling in one direction and to stop the cartraveling in one direction and to stop the carbraces the gavel and crowds it toward the triparm the breastplate moves down toward the arm and assists the needle in the work of compressing the gavel, thereby relieving the needle of much of the work which it was hitherto adapted to be thrown in mesh with any of the CUTTER-BAR.—Alonzo. F. Benn, Ridgway, pulleys. The double clutch is operated by a Penn.—The cutter-bar is constructed so that shifting-lever connected with a sliding-block. the knives are quickly and conveniently re- A second sliding-block has spring connection moved and replaced, and so that when the with the first-named sliding-block. The blocks can be moved in opposite directions. Locking readlly locked in place. By means of the dogs are provided for engaging and locking the locking mechanism, the knives can be adjusted; blocks in an outermost position, which dogs and any slack caused by wear on the abutting can be successively thrown out of engagement

GLUING OR PASTING MACHINE.-FRED-ERICK W. BROWN, Berlin, N. H. This improved glueing and pasting machine is designed especially for securing a burlap lining on a sheet of wrapping paper and coating the latter with an adhesive substance to secure the article formed upon the ends and edges of paper rolls, especially large newspaper rolls, to protect the edges of the rolls from damage during transportation, loading, and general handling.

SAWMILL-CARRIAGE GEAR.—ELWIN S. BERRY, Putnamville, Vt. Ordinarily the carriage is drawn back in the same line in which it was advanced, thereby warping the log against the saw. By means of the present invention, however, when the carriage is to be gigged or returned to the staring point, it is first moved sidewise slightly, so as to clear the log from the saw, whereupon the return movement is effected.

### Tools and Implements.

REPAIR - LINK. - FLETCHER G. ASBILL. steam and water inlet and outlet valves, and Ridgespring, S. C. The invention relates to links provided for the repair of broken tracechains or other chains. The object is to provide a very simply repair-link, which is light, automatically whenever the water level therein is lowered below a certain predetermined. The device is especially applicable as a lappoint of safety. The inventors have devised ring, or in lieu of a lap-ring such as is used ordinarily to connect a singletree and clevis to plow-beams.

DOUBLE-ACTION SAW-SET.—DUANE M. RORERTS and JOSEPH H. MARA, Marlow, Ind. Ty. In every saw, either all of the teeth or certain alternate teeth must be bent outward from the imaginary plane passing through the saw-blade. This operation is necessary both and simple form of steam-engine designed in new saws and in those in which through primarily to be used on an airship of which use in sawing the teeth have been closed or he is the inventor. The steam-engine comprises partially closed by the pressure of the maa crank-shaft with which the cylinder is directly connected. A non-reciprocating piston of this invention is especially designed for the with valves is arranged in the cylinder and purpose of bending the teeth to the proper connected with hollow piston-rods, forming in- angle and likewise to prevent buckling of the duction and exhaust pipes. Right angular saw. The punches used in this device each connections for the pipes are provided. Sta- act as an anvil for the other, so that the prestionary stuffing-boxes form axes of oscillation. sure of either punch has practically no effect except that of bending a tooth. The curved guideway provided prevents undue motion of the saw-blade and also assists in preventing the saw from coupling.

### Miscellaneous Inventions.

SURGICAL DEVICE.—HENRY W. POST, Fulconville, N. Y. The invention is an obstetrical device comprising a strap adapted to slide on the end board of a bedstead, and slide-plates mounted to move toward and from each other on the strap. Loops have swinging connection with the plates; and hand-grips are mounted on the loops.

AIR-VALVE FOR WATER-COCKS .- WIL-LIAM PAUL Savannah, Ga. The invention provides in connection with a water-cock an airinlet controlling-valve held normally in closed position by water pressure, but automatically opening upon opening the drain-cock to permit the entrance of air, so as to cause a thorough draining of the pipe in freezing weather.

SURGICAL INSTRUMENT CASE.—MAX W. BECTON, Manhattan, New York city. The case is arranged to carry hypodermic syringes and accessories. An instrument-carrier having tables, etc. Can be operated at the rate of from 45 to 60 suitable sockets or clamps is hinged to the cuts per minute. Address case, the connection being such that the carrier will be borne flat in one section of the case and can be readily turned over into the opposing section. The carrier-case may be therefore rendered aseptic, and the carrier raised from the case, affording ready access to the contents.

FRUIT-BASKET.—HENRY C. FINLEY, Oklahoma, Oklahoma Ty. This light and cheap pasteboard substitute for the wooden grape bas ket in ordinary use consists of a body and bottom secured together. A handle is provided with tongues which pass down upon the outer side of the body and also upon the inner side. some suitable composition. The construction provides a basket well adapted for its purpose. which basket is much lighter and can be constructed at much less cost than the ordinary wooden baskets.

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

### Business and Personal Wants. INDEX OF INVENTIONS

itean Thus Column Carrillar.—You will find inquiries for certain classes of articles numbered in consecutive order. If you manufacture these goods write us at once and we will send you the name and address of the party desiring the information. In every case it is necessary to give the number of the inquiry. MUNN & CO.

Marine Iron Works. Chicago. Catalogue free. Inquiry No. 1575.—For the manufacturer of the dome Sharpener, an emery wheel attachable to any ewing machine.

For logging engines. J. S. Mundy, Newark, N. J.

Inquiry No. 1576.—For manufacturers of electric automobile trucks or wagons for carrying not less than 3.000 pounds.

TURBINES.—Leffel & Co. Springfield, Ohio, U. S. A. Inquiry No. 1577.—For machines for making butcher skewers.

"U.S." Metal Polish. Indianapolis. Samples free. Inquiry No. 1578.—For machinery for separating materials in refuse and afterward grinding and mixing, after which it is pressed into balls, bricks, etc.

WATER WHEELS. Alcott & Co., Mt. Holly, N. J. Inquiry No. 1579.—For manufacturers of electric belts.

Gasoline Lamps and Systems. Turner Brass Works,

Inquiry No. 1580.—For manufacturers of nickel or nickel alloy tubes for gas engines.

Foot presses and dies. Amer. Hdw. Mfg. Co., Ottawa, Ill.

Inquiry No. 1581.—For a suction pump for cleaning casterns without drawing out all the water.

Handle & Spoke Mchy. Ober Mfg. Co., 10 Bell St.,

Inquiry No. 1582.—For manufacturers of gas engines from 1-16 to 1-2 horse power.

Machine chain of all kinds. A. H. Bliss & Co. North

Inquiry No. 1583.—For manufacturers of small dynamos to run 12 to 15 incandescent lights. Sawmill machinery and outfits manufactured by the Lane Mfg. Co.. Box 13, Montpelier, Vt.

Inquiry No. 1584.—For manufacturers of small steam siren whistles.

For Sheet Brass Stamping and small Castings, writ Badger Brass Mfg. Co., Kenosha, Wis.

Inquiry No. 1585.—For manufacturers or dealers in household novelties.

Rigs that Run. Hydrocarbon system. Write St. Louis Motor Carriage Co., St. Louis, Mo.

Inquiry No. 1586.—For dealers in children's musical or toy novelties.

Ten days' trial given on Daus' Tip Top Duplicator. Felix Daus Duplicator Co., 5 Hanover St., N. Y. city. Inquiry No. 1587.-For turbine water wheels.

Machinery designed and constructed. Gear cutting. The Garvin Machine Co., 149 Varick, cor. Spring Sts., N.Y. Inquiry No. 1588.—For parties dealing in No. 8 teel rails 30 feet long.

New Book, Electric Gas Lighting. 50c. Send for full descriptive circulars, free. Spon & Chamberlain, 12 Cortlandt Street, New York, U.S. A.

Inquiry No. 1589.—For machinery for making clothes pins.

Manufacturers of patent articles, stamping dies, tools, light machinery. Quadriga Manufacturing Company, 18 South Canal Street, Chicago.

Inquiry No. 1590.—For machinery for making outcher skewers.

Designers and builders of automatic and special machines of all kinds. Inventions perfected. The W. A. Wilson Machine Company, Rochester, N. Y.

Inquiry No. 1591.-For manufacturers of machinery for cutting, splitting and bundling wood.

The celebrated "Hornsby-Akroyd" Patent Safety Oil Engine is built by the De La Vergne Refrigerating Machine Company. Foot of East 138th Street, New York.

Inquiry No. 1592.—For machinery for making cound hardwood handles, etc., for pails, tubs. etc. MECHANICAL SUPERINTENDENT WANTED. - Familiar with the manufacture of firearms on a large scale essing executive and mechanical ability. Address stating age, experience and references, A. Box 2123 General Post Office, New York.

Inquiry No. 1593.—For manufacturers or dealers in machinery for making paper boxes.

WANTED.—A competent and energetic draughtsman, about 33 to 35 years, up in modern methods, to take charge of small machine shop. Good pay to right man. One familiar with bleaching and dyeing machinery pre-ferred. Address, giving full information and wages expected, B. B., No. 32 Kent St., Somerville, Mass.

Inquiry No. 1594.—For the address of the manuacturers of the "Hat Mirror and Hat mark," also Duke's Scissor Thimble."

FOR SALE.—Three bias cutting machines especially built and suitable for cutting velveteens and other fabrics on the bias. Each machine cuts a 4 yard length at a stroke; has self-sharpening knives and adjustable automatic feed; is perfectly balanced, requiring but little power to operate. All are in perfect condition; equipped with fast and loose driving pulleys. feed

E. H. B., Box 165, New York. Inquiry No. 1595.—For ture woodworking machinery. -For manufacturers of furni-

The best book for electricians and beginners in electricity is "Experimental Science." by Geo. M. Hopkins, By mail, \$4. Munn & Co., publishers. 351 Broadway, N. Y.

Inquiry No. 1596.—For shaping machinery used a making electric light telephone lighters, railway cross Send for new and complete catalogue of Scientific

and other Books for sale by Munn & Co., 361 Broadway, New York. Free on application. Inquiry No. 1597.—For machinery for making insulating pins.

Inquiry No. 1598.—For dealers in figured wood for veneering purposes.

Inquiry No. 1599.—For launch hulls of steel 13 to 30 feet long to be driven by gasoline motor.

Inquiry No. 1600.—For manufacturers of paper tubes for cigarette making.

Inquiry No. 1601.—For address of manufacturers of machinery for the separation and preparation of American asphalt, both sand and rock.

Inquiry No. 1602.—For parties to manufacture, portable bootblacking device consisting of tricycle and stand combined.

Inquiry No. 1603.—For manufacturers of an electrical apparatus for filtering water. Inquiry No. 1604.—For castings for kerosene engines to run an automobile.

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

November 5, 1901, AND EACH BEARING THAT DATE.

[See note at end of list about copies of these patents.] Acid, purifying lactic, C. N. Waite...... 686,170
Advertising device, F. J. Langer....... 685,771

Agricultural implement, J. M. Waters	686,171 686,115
Air for industrial purposes, apparatus for reheating compressed, T. A. Edison Air motor, J. Klein et al	685,911 686,081
Alloy, R. B. Wheatley	685,891 686,231
Anthracene, purifying, E. Wirth	685,895
Armsture adjusting device for relays, etc.	686,016 686,136
U. G. Rogers. Armature for electric meters, C. W. J. Busch Automobiles, locking device for steering	686,023 686,229
Axle dust guard, car, A. Johnson  Lag machine, G. R. Ward.  Bail supporter, S. Baker.	685,841 685,805
Balance escapement, M. Biskind Bale tie, F. A. Frawley	685,901 685,905 685,831
Dalas derice for remering cores from selin	685,879
drical, L. W. Spaulding  Baling press, G. D. Hayes Ball bearing roller, O'Brien & Wood Bar box and bottle closing means, J. T.	685,838 686,119
Hicks Barrel cover, J. F. Morin Basin support, water, J. C. McElroy. Bed, spring, W. F. Ade, Jr. Bedstead, J. F. Dietz.	686,223 686,108
Bed, spring, W. F. Ade, Jr Bedstead, J. F. Dietz	686,113 685,898 685,826
Deusteau, extension, J. D. Doss	686,036 685,853 686,034
Bicycles, holder for repairing, E. W. Flint	686,034 686,044 685,868
Boat, sail, J. P. Pool. Bolt clamp, G. W. McKim.	685,829 685,943 686,236
Bott threading machine, G. W. Packer Bock, account, C. Messerve Buttle, non-refillable, W. Hill	686,122 685,783 686,224
lstverage composition, J. Z. La Joie Bicycle frame, C. S. Dikeman. Bicycles, bolder for repairing, E. W. Flint. Bite plate, plaster, J. L. Reavis. Beat, V. Engelhardt. Boat, sail, J. P. Pool. Boat, sail, J. P. Pool. Boat clamp, G. W. McKim. Bolt threading machine, G. W. Packer. Bottle, non-refillable, W. Hill Box filling machine, E. H. Elsenhart. Brake locking device, W. G. Houk. Brake operating mechanism, A. Duppler.	686,042
Breeching, F. S. Dure	686,212 686,213 685,768
Grooch and pendant, convertible, A. Bippart. Brush, collapsible, A. Jacobs. Brush machine, F. N. & W. C. Weis. Buckle, H. Schmiedicke, Jr.	686,197 685,765 685,807
Buckle, H. Schmiedicke, Jr	685,873 686,129 686,093
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Car coupling, J. Timms	685.802
Car fender, W. P. Tucker. Car mover, E. A. Munson	685,909 686,169 686,110 685,859
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Carbureter for explosive engines, F. Le Blon. Card feeding and weighing mechanism, J.	685,993 686,072
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Comb, J. L. Gillum	685,814 686,050
Hollar & Rhodes	686,073 686,127 685,892
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Conv holder and blotter combination H 1)	686,123 685,788
Rodgers  Cork and preparing same, G. A. Trombert  Corn shuck chonner. J. Pluck	686,133 686,008 685,865
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M. Alderiei	685,899 686,177
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Dibble, J. G. Moren	685,925 686,221
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Brown Dipper handle, J. Carpenter Disinfecting device, for flushing tanks, T.	685,906 686,026
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	685,893 685,877
Door lock and alarm. A. L. Shore	685,916

Drainage, sewerage, etc., system of, J. P.   688,000   Drill, B. E.   Fright   688,000   Drill, B. E.   Fright   688,166   Drop light, V. A. Menues.   688,166   Drop light, V. A. Menues.   688,166   Drop light, V. A. Menues.   688,166   Drop light, W. A. Menues.   688,166   Drop light, V. A. Menues.   688,166   Egg beater, J. E.   Hill   688,000   Egg beater, J. E.   Hill   688,000   Electrice machine winding, dynamo, J. B.   Electrice mores, nears for operating and controlling, C. J. Reed   685,766   Electrice witch, H. P. Ball.   685,766   Electrical instrument case, U. G. Rogers   685,000   Electrical i	November	16,	1901.	
Electrical conduit nipple, A. C. Proudit. Electrical conduit nipple, A. C. Proudit. Electrical instribution system, F. Bedeil. Electrical distribution system, F. Bedeil. Electrical strainment case. U. G. Rogers. Electrical strainment case. Electrical strainment case. Electrode, accumulator, A. Ricks. Electrode, accumulator, A. Ricks. Embossing machine, J. G. Grall. Englines, automatic stop and emergency gear Englines, automatic stop and emergency gear Englines, electric ligniter for gas. J. B. Form. Englines, electrical ginition device for expositions. Englines, indicating device for sparking is Englines. Electrical ginition device for expositions. Excavating machiner, J. & W. Titus. Excavating machiner, H. A. Wyse. Excavating machiner, J. & W. Titus. Excavating machiner, M. & Soc. 232 Excavating machiner, M. & Soc. 232 Excavating	Drainage, sewerage, etc.	., syste	m of, J. P.	686,002
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Electrode, accumulator, A. Ricks. Elevator safety brake mechanism, O'Neill & S55,797 Emuric magazine, J. G. Grall	Electrical conduit nipple Electrical distribution s	e, A. C.	Proudfit F. Bedell	686,020
Embester machine, J. G. Grall. 885,823 Engines, automatic stop and emergency gear For marine and stationary, H. J. Teles, 886,163 Engines, electrical ignition device for establishment of the control of	Electrical instrument ca Electrical sounder, U. G.	se, U. C. Rogers	Rogers	686,138 686,135
mer Bengines, electrical ignition device for explosing Englisher, Edward Set 1988, 200 Evaporating apparatus, F. Cowin. 685, 826 Evaporating apparatus, F. Cowin. 685, 823 Excavating machine, H. A. Wilselium. 685, 823 Excryating machine, H. A. Wilselium. 685, 823 Excryating machine, H. A. Wilselium. 685, 823 Explosion motor regulation device, W. 685, 718 Explosion motor regulation device, W. 685, 718 Explosion motor regulation device, W. 685, 718 Pence, E. Love. 685, 717 Pence, E. Love. 685, 717 Pence, E. Love. 78 Evaporation of the Part of	Elevator safety brake m	echanist	n, O'Neill &	_
Engines, electrical ignition device for explosing and the property of the prop	Embossing machine, J. Engine vaporizer, gasole	G. Gral	M. Lear	685,833
mer Bengines, electrical ignition device for explosing Englisher, Edward Set 1988, 200 Evaporating apparatus, F. Cowin. 685, 826 Evaporating apparatus, F. Cowin. 685, 823 Excavating machine, H. A. Wilselium. 685, 823 Excryating machine, H. A. Wilselium. 685, 823 Excryating machine, H. A. Wilselium. 685, 823 Explosion motor regulation device, W. 685, 718 Explosion motor regulation device, W. 685, 718 Explosion motor regulation device, W. 685, 718 Pence, E. Love. 685, 717 Pence, E. Love. 685, 717 Pence, E. Love. 78 Evaporation of the Part of	for marine and stati	onary, I	I. J. Teiper.	686,168
Farm gate, E. Robertson	ner	ion device	ce for explo-	
Farm gate, E. Robertson	sion, Z. Wirt Engines, indicating dev	ice for	sparking ig-	
Farm gate, E. Robertson	Evaporating apparatus, Excavating machine, H.	F. Cow A. Wis	in	685.823
Farm gate, E. Robertson	Exercising apparatus, B.	J. & W.	Titus	685,803 685,788
Fence, Falewing Cllp, wire, W. Maher. Fence fastening Cllp, wire, W. Maher. Fence fastening Cllp, wire, W. Maher. S85, 225 File cleaner, G. W. Schellenbach. File handle and guide, T. W. Miller. S86, 102 File the famile and guide, T. W. Miller. S86, 103 File famile, Service, G. A. Crisman. S85, 104 Filerarm, J. F. Theurer. S85, 587 Firearm, I. J. Edge. Firearm, I. J. Edge. Firearm, I. J. Edge. S85, 105 Firearm, Service, B. A. Crisman. S85, 587 Firearm, S. L. Wright. S85, 588 Firearm, S. L. Wright. S85, 587 Firearm, S. L. Wright. S85, 588 Firearm, S. L. Wright. S85, 587 Firearm, S. L. Wright. S85, 588	Maybach		rice, w. A.	686,101 685,798
Filter   J. F. Theurer   \$85,847     Fine alarm, automatic, B. A. Crisman   \$85,947     Fire alarm, automatic, B. A. Crisman   \$85,745     Firearm, 1. Edge   \$88,750     Firearm, 1. Edge   \$88,750     Firearm, 1. Edge   \$88,750     Firearm, 1. Edge   \$88,750     Fire extinguisher, Hale & Wishen   \$86,865     Fire extinguisher, Hale & Wishen   \$86,865     Fire extinguisher, Hale & Wishen   \$86,865     Fire extinguisher, Hale & Wishen   \$85,805     Fire extinguisher, F. Yost   \$86,805     Fire actinguisher, Hale & Wishen   \$85,805     Fluids, regulator for flow of, H. J. Myers   \$85,805     Fluids, regulator for flow of, H. J. Myers   \$85,805     Fluids, regulator for flow of, H. J. Myers   \$85,805     Fluids, regulator for flow of, H. J. Myers   \$85,805     Fluids, regulator for flow of, H. J. Myers   \$85,807     Furlace door operating mechanism, F. L.   \$85,805     Furlace and the state of the state	Feed water regulator, au Fence, E. Love	tomatic,	G. Carlisle.	685,971 685,777
Filter   J. F. Theurer   \$85,847	Fence clip, wire, W. Ma Fence fastening clip, w File cleaner G. W. Sch	ire, W.	Maher	686,232
Garment holder, J. D. O'Brion. 655, 982, Garter clasp, E. Gutmann. 685, 982, Gas apparatus, acetylene, A. Hall. 686, 057 Gas burner, A. G. Spinney. 685, 959 Gas meters, slot gnard for coin controlled, Gas cut off, automatic, P. Sharp. 685, 950 Gas meters, slot gnard for coin controlled, Gear, and the state of the s	File handle and guide, T Filter, J. F. Theurer	r. W. M	iller	686 106
Garment holder, J. D. O'Brion. 655, 982, Garter clasp, E. Gutmann. 685, 982, Gas apparatus, acetylene, A. Hall. 686, 057 Gas burner, A. G. Spinney. 685, 959 Gas meters, slot gnard for coin controlled, Gas cut off, automatic, P. Sharp. 685, 950 Gas meters, slot gnard for coin controlled, Gear, and the state of the s	Finger ring, J. Sava Fire alarm, automatic, B	B. A. Cri	sman	685,947 685,745
Garment holder, J. D. O'Brion. 655, 982, Garter clasp, E. Gutmann. 685, 982, Gas apparatus, acetylene, A. Hall. 686, 057 Gas burner, A. G. Spinney. 685, 959 Gas meters, slot gnard for coin controlled, Gas cut off, automatic, P. Sharp. 685, 950 Gas meters, slot gnard for coin controlled, Gear, and the state of the s	Firearm, revolving, A. H. Fire escape, H. I., Wright	I. Stow.		686,182
Garment holder, J. D. O'Brion. 655, 982, Garter clasp, E. Gutmann. 685, 982, Gas apparatus, acetylene, A. Hall. 686, 057 Gas burner, A. G. Spinney. 685, 959 Gas meters, slot gnard for coin controlled, Gas cut off, automatic, P. Sharp. 685, 950 Gas meters, slot gnard for coin controlled, Gear, and the state of the s	Fire extinguisher, Hale of Fire extinguisher, F. Yo	& Wiesn	er	686,056 686,183
Garment holder, J. D. O'Brion. 65, 582, 683, 637 Garter clasp, E. Gutmann. 685, 982, 683, 935 Garter clasp, E. Gutmann. 685, 982, 683, 935 Gas apparatus, acetylene, A. Hall. 686, 057 Gas burner, A. G. Spinney. 685, 959 Gas meters, slot gnard for coin controlled, 686, 112 Gas cut off, automatic, P. Sharp. 685, 950 Gas meters, slot gnard for coin controlled, 666, 112 Gear shifting device lock, W. A. Maybach. 686, 100 Gear, variable speed, R. P. B. Green. 685, 680, 693 Glass tubing, C. E. Wade. 686, 100 Gear, variable speed, R. P. B. Green. 685, 680, 693 Glaber salt, dehydrating, H. Pemberton, Jr. 685, 680, 693 Grain drill, G. Roby. 685, 686, 693 Hsir dresser's block, L. Alarme. 686, 186 Hair retaining comb, W. A. Seibel. 686, 184 Harrow disk, W. Wildman. 686, 174 Harvester, Drotato, J. Colcrove. 685, 944 Harvester, Drotato, J. Colcrove. 685, 944 Harvester, Potato, J. Colcrove. 685, 944 Harvester, Drotato, J. Colcrove. 685, 944 Henming and hemstitching attachment, J. W. Simons. 686, 025 Holst, radial, R. W. Mudhans. 686, 025 Holst, radial, R. W. Mudhans. 686, 025 Holst, radial, R. W. W. G. Hold, 685, 024 Holst, radial, R. W. W. G. Hold, 685, 024 Holst, radial, R. W. W. G. Hold, 685, 024 Holst, radial, R. W. W. G. Hold, 685, 024 Holst, radial, R. W. W. G. Hold, 685, 024 Holst, radial, R. W. W. G. Hold, 685, 024 Holst, radial, R. W. W. G. Hold, 685, 024 Holst, radial, R. W. W. G. Hold, 685, 024 Hold, R. W. J. Kent. 685, 024 Hold, W. J. Kent. 685, 024 Hold, R. W. S. W. W. G. G. Bosott. 685, 924 Holst, R. W. S. W. W. G. G. Bosott. 685, 936 Hold, R. W. W. G. G. Bosott. 685, 936 Hold, R. W. W. G. G. Bosott. 685, 936 Hold, R. W. W. G. G. Bosott. 685, 936 Hold, R. W. W	Fluids, regulator for flow Folding box. G. A. Dieke	v of, H.	J. Myers	685,787 685,977
Garment holder, J. D. O'Brion. 65, 582, 683, 637 Garter clasp, E. Gutmann. 685, 982, 683, 935 Garter clasp, E. Gutmann. 685, 982, 683, 935 Gas apparatus, acetylene, A. Hall. 686, 057 Gas burner, A. G. Spinney. 685, 959 Gas meters, slot gnard for coin controlled, 686, 112 Gas cut off, automatic, P. Sharp. 685, 950 Gas meters, slot gnard for coin controlled, 666, 112 Gear shifting device lock, W. A. Maybach. 686, 100 Gear, variable speed, R. P. B. Green. 685, 680, 693 Glass tubing, C. E. Wade. 686, 100 Gear, variable speed, R. P. B. Green. 685, 680, 693 Glaber salt, dehydrating, H. Pemberton, Jr. 685, 680, 693 Grain drill, G. Roby. 685, 686, 693 Hsir dresser's block, L. Alarme. 686, 186 Hair retaining comb, W. A. Seibel. 686, 184 Harrow disk, W. Wildman. 686, 174 Harvester, Drotato, J. Colcrove. 685, 944 Harvester, Drotato, J. Colcrove. 685, 944 Harvester, Potato, J. Colcrove. 685, 944 Harvester, Drotato, J. Colcrove. 685, 944 Henming and hemstitching attachment, J. W. Simons. 686, 025 Holst, radial, R. W. Mudhans. 686, 025 Holst, radial, R. W. Mudhans. 686, 025 Holst, radial, R. W. W. G. Hold, 685, 024 Holst, radial, R. W. W. G. Hold, 685, 024 Holst, radial, R. W. W. G. Hold, 685, 024 Holst, radial, R. W. W. G. Hold, 685, 024 Holst, radial, R. W. W. G. Hold, 685, 024 Holst, radial, R. W. W. G. Hold, 685, 024 Holst, radial, R. W. W. G. Hold, 685, 024 Holst, radial, R. W. W. G. Hold, 685, 024 Hold, R. W. J. Kent. 685, 024 Hold, W. J. Kent. 685, 024 Hold, R. W. S. W. W. G. G. Bosott. 685, 924 Holst, R. W. S. W. W. G. G. Bosott. 685, 936 Hold, R. W. W. G. G. Bosott. 685, 936 Hold, R. W. W. G. G. Bosott. 685, 936 Hold, R. W. W. G. G. Bosott. 685, 936 Hold, R. W. W	Fuel, manufacturers of a Furnace, F. Renders	rtificial,	U. Ganz	686,049
Gates, see, farm gate.  Gates, see, farm gate.  Gates, see, farm gate.  Gates, see, farm gate.  Gars hitting device lock, W. A. Maybach.  682, 682, 686, 193  Gars hitting device lock, W. A. Maybach.  682, 583, 681, 682, 682, 683, 683, 683, 683, 683, 683, 683, 683				685,886 685,935
Gates, see, farm gate.  Gates, see, farm gate.  Gates, see, farm gate.  Gates, see, farm gate.  Gars hitting device lock, W. A. Maybach.  682, 682, 686, 193  Gars hitting device lock, W. A. Maybach.  682, 583, 681, 682, 682, 683, 683, 683, 683, 683, 683, 683, 683	Garter clasp, E. Gutman Gas apparatus, acetylene	n e, A. Ha	685,982,	685,983 686,057
Grain drill, G. I. Roby. 685,946 Grate, H. H. Hunter. 686,075 Gravel and sand separator, H. O. Johnson. 686,030 Hair dresser's block, I. Alarme. 686,186 Hair retaining comb, W. A. Seibel. 686,186 Hair retaining comb, W. A. Seibel. 686,186 Harvester, E. Pridmore. 685,944 Harvester, potato, J. Colgrove. 685,998 Hay rake, horse, E. W. Parrish. 685,174 Hay rake, horse, E. W. Parrish. 685,174 Hay rake, horse, E. W. Parrish. 685,190 Heater, J. Kasmeler. 686,125 Holist, radial, G. W. Mudd. 686,025 Hoist, radial, G. W. Mudd. 686,025 Hoist, radial, G. W. Mudd. 686,025 Hoist, radial, G. W. Mudd. 685,025 Horse detacher, T. K. Loken. 685,769 Horse detacher, T. K. Loken. 685,769 Horse detacher, T. K. Loken. 685,769 Horse detacher, T. K. Loken. 685,891 Hub, wheel, F. Stacy et al. 686,191 Ice shaver, W. E. Wood. 685,761 Hub, wheel, F. Stacy et al. 686,191 Ice shaver, W. E. Wood. 685,763 Incandescent burner cap, G. D. Scott. 685,235 Insulator support, F. M. Locke. 685,713 Key seat cutter, J. N. Lapointe Kenney. 686,114 Lachg stud setting machines, rotary separa- tor and stop for, J. Pierce. 686,714 Lachg stud setting machines, rotary separa- tor and stop for, J. Pierce. 686,714 Ladder bracket for scaffolding, M. C. A. Heiden. 685,984 Laddle stopper, J. H. Allendorfer. 685,735 Laddle stopper seat, G. W. Baldt. 685,984 Laddle stopper seat, G. W. Baldt. 685,964 Lamp, J. & G. G. Doorenbos. 686,035 Lamp, N. Johnson. 686,035 Lamp, N. Johnson. 686,035 Lamp, J. & G. G. Doorenbos. 686,035 Lamp, N. Johnson. 685,791 Lamp is feeding and heating device, W. H. Payne. 685,793 Landing device, J. Straub. 685,894 Lacether working machine, E. S. Crane. 685,793 Londing device, J. Straub. 685,895 Morn stop motion, J. Cwerka. 685,894 Mortal Sharish and typesetting m	Gas ourner, A. G. Spinne Gas cut off, automatic, I Gas meters, slot gnard	Sharp for coin	n controlled.	
Grain drill, G. I. Roby. 685,946 Grate, H. H. Hunter. 686,075 Gravel and sand separator, H. O. Johnson 686,030 Hair dresser's block, L. Alarme 686,186 Hair retaining comb, W. A. Seibel. 686,186 Harrow, disk, W. Wildman. 686,174 Harvester, E. Pridmore. 685,948 Harvester, potato, J. Colgrove. 685,998 Hay rake, horse, E. W. Parrish. 685,174 Harvester, potato, J. Colgrove. 685,998 Heater, J. Kasmeier. 686,174 Heny mag and hemstitching attachment, J. 686,151 Hinge, door, J. M. Cannon. 686,025 Hoist, radial, G. W. Mudd. 686,025 Hoist, radial, G. W. Mudd. 686,025 Hoist, radial, G. W. Mudd. 686,025 Horse detacher, T. K. Loken. 685,769 Horse detacher, T. K. Loken. 685,769 Horse detacher, T. K. Loken. 685,769 Horse detacher, T. K. Loken. 685,891 Hub, wheel, F. Stacy et al. 686,191 Ice shaver, W. E. Wood. 685,761 Hub, wheel, F. Stacy et al. 686,191 Ice shaver, W. E. Wood. 685,763 Incandescent burner cap, G. D. Scott. 685,235 Insulator support, F. M. Locker. 686,714 Ladder bracket for scaffolding, M. C. A. Heiden. 685,742 Ladder bracket for scaffolding, M. C. A. Heiden. 685,742 Ladder bracket for scaffolding, M. C. A. Heiden. 685,742 Ladder bracket for scaffolding, M. C. A. Heiden. 685,793 Ladde stopper, J. H. Allendorfer. 685,742 Ladder bracket for scaffolding, M. C. A. Heiden. 685,984 Ladde stopper, J. H. Allendorfer. 685,742 Lanp, N. Johnson. 686,035 Lamp, N. Johnson. 686,035 Lamp, J. & G. G. Doorenbos. 686,035 Lamp, J. & G. G. Doorenbos. 686,035 Lamp, J. Achier, M. E. H. Forst. 686,174 Lamp, incandescent electric, M. E. H. Forst. 686,174 Laprone holder, J. A. Cote. 685,792 Lamp, Laprone holder, J. A. Cote. 685,793 Ladue stopper, J. H. Allendorfer. 685,793 Ladue stopper, J. H. Allendorfer. 685,794 Lamp, J. & G. G. Doorenbos. 686,035 Lamp, N. Johnson. 686,035 Lamp, N. Johnson. 686,035 Lamp, N. Johnson. 686,036 Lamp, M. Johnson. 686,036 Lamp, M. Johnson. 685,039 Laprone holder, J. A. Cote. 685,930 Laprone for weaving bays, J. T. Meats. 685,930 Laprone for weaving bays, J. T. Meats. 685,535 Mon winger holder, J. A. Cote. 6	McDonald & Wright Gates, see farm gate.			686,112
Grain drill, G. I. Roby. 685,946 Grate, H. H. Hunter. 686,075 Gravel and sand separator, H. O. Johnson. 686,030 Hair dresser's block, I. Alarme. 686,186 Hair retaining comb, W. A. Seibel. 686,186 Hair retaining comb, W. A. Seibel. 686,186 Harvester, E. Pridmore. 685,944 Harvester, potato, J. Colgrove. 685,998 Hay rake, horse, E. W. Parrish. 685,174 Hay rake, horse, E. W. Parrish. 685,174 Hay rake, horse, E. W. Parrish. 685,190 Heater, J. Kasmeler. 686,125 Holist, radial, G. W. Mudd. 686,025 Hoist, radial, G. W. Mudd. 686,025 Hoist, radial, G. W. Mudd. 686,025 Hoist, radial, G. W. Mudd. 685,025 Horse detacher, T. K. Loken. 685,769 Horse detacher, T. K. Loken. 685,769 Horse detacher, T. K. Loken. 685,769 Horse detacher, T. K. Loken. 685,891 Hub, wheel, F. Stacy et al. 686,191 Ice shaver, W. E. Wood. 685,761 Hub, wheel, F. Stacy et al. 686,191 Ice shaver, W. E. Wood. 685,763 Incandescent burner cap, G. D. Scott. 685,235 Insulator support, F. M. Locke. 685,713 Key seat cutter, J. N. Lapointe Kenney. 686,114 Lachg stud setting machines, rotary separa- tor and stop for, J. Pierce. 686,714 Lachg stud setting machines, rotary separa- tor and stop for, J. Pierce. 686,714 Ladder bracket for scaffolding, M. C. A. Heiden. 685,984 Laddle stopper, J. H. Allendorfer. 685,735 Laddle stopper seat, G. W. Baldt. 685,984 Laddle stopper seat, G. W. Baldt. 685,964 Lamp, J. & G. G. Doorenbos. 686,035 Lamp, N. Johnson. 686,035 Lamp, N. Johnson. 686,035 Lamp, J. & G. G. Doorenbos. 686,035 Lamp, N. Johnson. 685,791 Lamp is feeding and heating device, W. H. Payne. 685,793 Landing device, J. Straub. 685,894 Lacether working machine, E. S. Crane. 685,793 Londing device, J. Straub. 685,895 Morn stop motion, J. Cwerka. 685,894 Mortal Sharish and typesetting m	Gear shifting device loc Gear, variable speed, R.	k, W. A P. B. G	A. Maybach.	686,100 685,834
Grain drill, G. I. Roby. 685,946 Grate, H. H. Hunter. 686,075 Gravel and sand separator, H. O. Johnson. 686,030 Hair dresser's block, I. Alarme. 686,186 Hair retaining comb, W. A. Seibel. 686,186 Hair retaining comb, W. A. Seibel. 686,186 Harvester, E. Pridmore. 685,944 Harvester, potato, J. Colgrove. 685,998 Hay rake, horse, E. W. Parrish. 685,174 Hay rake, horse, E. W. Parrish. 685,174 Hay rake, horse, E. W. Parrish. 685,190 Heater, J. Kasmeler. 686,125 Holist, radial, G. W. Mudd. 686,025 Hoist, radial, G. W. Mudd. 686,025 Hoist, radial, G. W. Mudd. 686,025 Hoist, radial, G. W. Mudd. 685,025 Horse detacher, T. K. Loken. 685,769 Horse detacher, T. K. Loken. 685,769 Horse detacher, T. K. Loken. 685,769 Horse detacher, T. K. Loken. 685,891 Hub, wheel, F. Stacy et al. 686,191 Ice shaver, W. E. Wood. 685,761 Hub, wheel, F. Stacy et al. 686,191 Ice shaver, W. E. Wood. 685,763 Incandescent burner cap, G. D. Scott. 685,235 Insulator support, F. M. Locke. 685,713 Key seat cutter, J. N. Lapointe Kenney. 686,114 Lachg stud setting machines, rotary separa- tor and stop for, J. Pierce. 686,714 Lachg stud setting machines, rotary separa- tor and stop for, J. Pierce. 686,714 Ladder bracket for scaffolding, M. C. A. Heiden. 685,984 Laddle stopper, J. H. Allendorfer. 685,735 Laddle stopper seat, G. W. Baldt. 685,984 Laddle stopper seat, G. W. Baldt. 685,964 Lamp, J. & G. G. Doorenbos. 686,035 Lamp, N. Johnson. 686,035 Lamp, N. Johnson. 686,035 Lamp, J. & G. G. Doorenbos. 686,035 Lamp, N. Johnson. 685,791 Lamp is feeding and heating device, W. H. Payne. 685,793 Landing device, J. Straub. 685,894 Lacether working machine, E. S. Crane. 685,793 Londing device, J. Straub. 685,895 Morn stop motion, J. Cwerka. 685,894 Mortal Sharish and typesetting m	Glass tubing, C. E. Wade Glauber salt, dehydrating	g, H. Per	mberton, Jr.	686,009 685,792
Gravel and sand separator, H. O. Johnson. GSS,843 Gun cleaner, J. B., Crepeau	Grain drill, G. L. Roby Grate, H. H. Hunter			685,946
Hinge, door, J. M. Cannon	Gravel and sand separa Gun cleaner, J. B. Crep	tor, H.	O. Johnson.	686,030
Hinge, door, J. M. Cannon	Hair retaining comb, W Harrow, disk, W. Wildn	A. Sei	bel	686,148 686,174
Hinge, door, J. M. Cannon	Harvester, E. Pridmore Harvester, potato, J. Co Hay rake, horse, E. W	lgrove Parrish		685,908
Hinge, door, J. M. Cannon	Heater, J. Kasmeier Hemming and hemstite	hing att	achment, J.	685,848
Lamps, incandescent electric, M. E. H. Forst. Lamps, single burner for vapor, A. Kitson.  686, 086 Lap robe holder, J. A. Cote. Latch, W. D. Campbell. 685, 969 Latthe clamping device, S. Neumann. 685, 969 Latthe cloul, U. G. Rogers. 686, 134 Leather working machine cleaner and drier, G. H. Forbush. 686, 219 Lenses, axis finder for, C. B. Elliott. 685, 828 Lifting jack, H. W. Armstrong. 685, 828 Lifting jack, H. W. Armstrong. 685, 821 Linotyping and typesetting machine, A. S. 685, 828 Liquid separator, centrifugal. D. T. Sharples. 645, 874 Liquid separating bags, J. T. Meats. 685, 892 Loom for weaving bags, J. T. Meats. 685, 892 Loom harness operating mechanism, E. Monhof. 685, 857 Loom stop motion. J. Cwerka. 685, 992 Mail box, P. W. Fromhold. 685, 857 Mattrix distributing machine, E. S. Crane. 685, 902 Mantle support, W. C. Homan. 685, 885 Metal shearing pulverulent articles, apparatus for, C. J. Holm. 685, 885 Metal shearing paratus for utilizing effects fransmitted from a distance to a receiving device through, N. Tesla. 685, 920 Natural media, apparatus for utilizing effects transmitted from a distance to a receiving effects transmitted through, N. Tesla. 685, 955 Natural media, intensifying and utilizing effects transmitted through, N. Tesla. 685, 955	Hinge, door, J. M. Canno Hoist, radial, G. W. Mu	on ıdd		686,025 686,004
Lamps, incandescent electric, M. E. H. Forst. Lamps, single burner for vapor, A. Kitson.  686, 086 Lap robe holder, J. A. Cote. Latch, W. D. Campbell. 685, 969 Latthe clamping device, S. Neumann. 685, 969 Latthe cloul, U. G. Rogers. 686, 134 Leather working machine cleaner and drier, G. H. Forbush. 686, 219 Lenses, axis finder for, C. B. Elliott. 685, 828 Lifting jack, H. W. Armstrong. 685, 828 Lifting jack, H. W. Armstrong. 685, 821 Linotyping and typesetting machine, A. S. 685, 828 Liquid separator, centrifugal. D. T. Sharples. 645, 874 Liquid separating bags, J. T. Meats. 685, 892 Loom for weaving bags, J. T. Meats. 685, 892 Loom harness operating mechanism, E. Monhof. 685, 857 Loom stop motion. J. Cwerka. 685, 992 Mail box, P. W. Fromhold. 685, 857 Mattrix distributing machine, E. S. Crane. 685, 902 Mantle support, W. C. Homan. 685, 885 Metal shearing pulverulent articles, apparatus for, C. J. Holm. 685, 885 Metal shearing paratus for utilizing effects fransmitted from a distance to a receiving device through, N. Tesla. 685, 920 Natural media, apparatus for utilizing effects transmitted from a distance to a receiving effects transmitted through, N. Tesla. 685, 955 Natural media, intensifying and utilizing effects transmitted through, N. Tesla. 685, 955	Hoisting apparatus, H. Q Hoisting boom, T. A. Co Hoof pad, W. J. Kent	Hood.		685,764 686,205 685,769
Lamps, incandescent electric, M. E. H. Forst. 686, 218 Lamps, single burner for vapor, A. Kitson. 686, 086 Lap robe holder, J. A. Cote. 685, 974 Latch, W. D. Campbell. 685, 969 Latthe clamping device, S. Neumann. 685, 939 Latthe tool, U. G. Rogers. 686, 134 Leather working machine cleaner and drier, G. H. Forbush. 685, 989 Lifting jack, H. W. Armstrong. 685, 828 Lifting jack, H. W. Armstrong. 685, 821 Linotyping and typesetting machine, A. S. 685, 828 Lifting jack, H. W. Armstrong. 685, 821 Linotyping and typesetting machine, A. S. 685, 828 Liquid separator, centrifugal. D. T. Sharples. 685, 821 Liquid separator, centrifugal. D. T. Sharples. 685, 734 Liquid separator, centrifugal. D. T. Sharples. 685, 734 Liquid separator, centrifugal. D. T. Sharples. 685, 734 Liquid separator, centrifugal. D. T. Sharples. 685, 784 Liquid separator, centrifugal. D. T. Sharples. 685, 980 Liquid separator, centrifugal. D. T. Sharples. 685, 980 Liquid separating bags, J. T. Meats. 685, 857 Liquid separating bags, J. T. Meats. 685, 859 Liquid separatus for wearing the fed fabrics, C. Hughes. 685, 858 Liquid separatus. B. Edg. 685, 992 Loom for weaving tufted fabrics, C. Hughes. 685, 992 Loom shuttle actuating mechanism, E. Monhof. 685, 857 Lacey. 685, 992 Mail box, P. W. Fromhold. 685, 992 Mailting apparatus. B. Berg. 685, 992 Mailting apparatus. B. Berg. 685, 993 Measuring pulverulent articles, apparatus for, C. J. Holm. 685, 889 Metal shearing or cutting machine, W. E. Crane. 685, 743 Metal shearing or cutting machine, W. E. Crane. 685, 889 Metals, hardening, C. J. Johnson. 685, 842 Metals, Uniting or welding, W. Griffith. 685, 934 Milling machine, H. M. Norris. 685, 934 Milling machine, H. M. Norris. 685, 934 Milling machine, H. M. Norris. 685, 934 Minic door operating mechanism, W. W. Bradley. 685, 935 Motor	Horse detacher, T. K. Horseshoe, open toed, I.	Loken J. Bayl	ess, reissue.	685,923 11,942
Lamps, incandescent electric, M. E. H. Forst. Lamps, single burner for vapor, A. Kitson.  686, 086 Lap robe holder, J. A. Cote. Latch, W. D. Campbell. 685, 969 Latthe clamping device, S. Neumann. 685, 969 Latthe cloul, U. G. Rogers. 686, 134 Leather working machine cleaner and drier, G. H. Forbush. 686, 219 Lenses, axis finder for, C. B. Elliott. 685, 828 Lifting jack, H. W. Armstrong. 685, 828 Lifting jack, H. W. Armstrong. 685, 821 Linotyping and typesetting machine, A. S. 685, 828 Liquid separator, centrifugal. D. T. Sharples. 645, 874 Liquid separating bags, J. T. Meats. 685, 892 Loom for weaving bags, J. T. Meats. 685, 892 Loom harness operating mechanism, E. Monhof. 685, 857 Loom stop motion. J. Cwerka. 685, 992 Mail box, P. W. Fromhold. 685, 857 Mattrix distributing machine, E. S. Crane. 685, 902 Mantle support, W. C. Homan. 685, 885 Metal shearing pulverulent articles, apparatus for, C. J. Holm. 685, 885 Metal shearing paratus for utilizing effects fransmitted from a distance to a receiving device through, N. Tesla. 685, 920 Natural media, apparatus for utilizing effects transmitted from a distance to a receiving effects transmitted through, N. Tesla. 685, 955 Natural media, intensifying and utilizing effects transmitted through, N. Tesla. 685, 955	Hose coupling, Kifer & Hot water bag, M. S. V Hub, wheel, E. Einfeld	Williams t	· · · · · · · · · · · · · · · · · · ·	685,894 686,041
Lamps, incandescent electric, M. E. H. Forst. Lamps, single burner for vapor, A. Kitson.  686, 086 Lap robe holder, J. A. Cote. Latch, W. D. Campbell. 685, 969 Latthe clamping device, S. Neumann. 685, 969 Latthe cloul, U. G. Rogers. 686, 134 Leather working machine cleaner and drier, G. H. Forbush. 686, 219 Lenses, axis finder for, C. B. Elliott. 685, 828 Lifting jack, H. W. Armstrong. 685, 828 Lifting jack, H. W. Armstrong. 685, 821 Linotyping and typesetting machine, A. S. 685, 828 Liquid separator, centrifugal. D. T. Sharples. 645, 874 Liquid separating bags, J. T. Meats. 685, 892 Loom for weaving bags, J. T. Meats. 685, 892 Loom harness operating mechanism, E. Monhof. 685, 857 Loom stop motion. J. Cwerka. 685, 992 Mail box, P. W. Fromhold. 685, 857 Mattrix distributing machine, E. S. Crane. 685, 902 Mantle support, W. C. Homan. 685, 885 Metal shearing pulverulent articles, apparatus for, C. J. Holm. 685, 885 Metal shearing paratus for utilizing effects fransmitted from a distance to a receiving device through, N. Tesla. 685, 920 Natural media, apparatus for utilizing effects transmitted from a distance to a receiving effects transmitted through, N. Tesla. 685, 955 Natural media, intensifying and utilizing effects transmitted through, N. Tesla. 685, 955	Huli, wheel, F. Stacy et Ice shaver, W. E. Wood	al		686,160 685,961
Lamps, incandescent electric, M. E. H. Forst. Lamps, single burner for vapor, A. Kitson.  86, 086 Lap robe holder, J. A. Cote	Insulator support, F. M Joint coupling, flexible, (	I. Locke G. W. Si	nields	686,776 685,876
Lamps, incandescent electric, M. E. H. Forst. Lamps, single burner for vapor, A. Kitson.  86, 086 Lap robe holder, J. A. Cote	Key seat cutter, J. N. L. Knife blade cutter gag.	apointe. e, E. M	cKenney	685,772 686,114 686,070
Lamps, incandescent electric, M. E. H. Forst. Lamps, single burner for vapor, A. Kitson.  686, 086 Lap robe holder, J. A. Cote. Latch, W. D. Campbell. 685, 969 Latthe clamping device, S. Neumann. 685, 969 Latthe cloul, U. G. Rogers. 686, 134 Leather working machine cleaner and drier, G. H. Forbush. 686, 219 Lenses, axis finder for, C. B. Elliott. 685, 828 Lifting jack, H. W. Armstrong. 685, 828 Lifting jack, H. W. Armstrong. 685, 821 Linotyping and typesetting machine, A. S. 685, 828 Liquid separator, centrifugal. D. T. Sharples. 645, 874 Liquid separating bags, J. T. Meats. 685, 892 Loom for weaving bags, J. T. Meats. 685, 892 Loom harness operating mechanism, E. Monhof. 685, 857 Loom stop motion. J. Cwerka. 685, 992 Mail box, P. W. Fromhold. 685, 857 Mattrix distributing machine, E. S. Crane. 685, 902 Mantle support, W. C. Homan. 685, 885 Metal shearing pulverulent articles, apparatus for, C. J. Holm. 685, 885 Metal shearing paratus for utilizing effects fransmitted from a distance to a receiving device through, N. Tesla. 685, 920 Natural media, apparatus for utilizing effects transmitted from a distance to a receiving effects transmitted through, N. Tesla. 685, 955 Natural media, intensifying and utilizing effects transmitted through, N. Tesla. 685, 955	Lacing stud setting mac tor and stop for, J.	hines, ro Pierce.	otary separa-	685,942
Lamps, incandescent electric, M. E. H. Forst. Lamps, single burner for vapor, A. Kitson.  86, 086 Lap robe holder, J. A. Cote	Heiden	endorfer	, M. C. A.	685,984 685,735
Lamps, incandescent electric, M. E. H. Forst. Lamps, single burner for vapor, A. Kitson.  686, 086 Lap robe holder, J. A. Cote. Latch, W. D. Campbell. 685, 969 Latthe clamping device, S. Neumann. 685, 969 Latthe cloul, U. G. Rogers. 686, 134 Leather working machine cleaner and drier, G. H. Forbush. 686, 219 Lenses, axis finder for, C. B. Elliott. 685, 828 Lifting jack, H. W. Armstrong. 685, 828 Lifting jack, H. W. Armstrong. 685, 821 Linotyping and typesetting machine, A. S. 685, 828 Liquid separator, centrifugal. D. T. Sharples. 645, 874 Liquid separating bags, J. T. Meats. 685, 892 Loom for weaving bags, J. T. Meats. 685, 892 Loom harness operating mechanism, E. Monhof. 685, 857 Loom stop motion. J. Cwerka. 685, 992 Mail box, P. W. Fromhold. 685, 857 Mattrix distributing machine, E. S. Crane. 685, 902 Mantle support, W. C. Homan. 685, 885 Metal shearing pulverulent articles, apparatus for, C. J. Holm. 685, 885 Metal shearing paratus for utilizing effects fransmitted from a distance to a receiving device through, N. Tesla. 685, 920 Natural media, apparatus for utilizing effects transmitted from a distance to a receiving effects transmitted through, N. Tesla. 685, 955 Natural media, intensifying and utilizing effects transmitted through, N. Tesla. 685, 955	Ladle stopper seat, G. V. Lamp, H. W. Weber	V. Baldt		685,964 685,806
Lamps, incandescent electric, M. E. H. Forst. Lamps, single burner for vapor, A. Kitson.  686, 086 Lap robe holder, J. A. Cote. Latch, W. D. Campbell. 685, 969 Latthe clamping device, S. Neumann. 685, 969 Latthe cloul, U. G. Rogers. 686, 134 Leather working machine cleaner and drier, G. H. Forbush. 686, 219 Lenses, axis finder for, C. B. Elliott. 685, 828 Lifting jack, H. W. Armstrong. 685, 828 Lifting jack, H. W. Armstrong. 685, 821 Linotyping and typesetting machine, A. S. 685, 828 Liquid separator, centrifugal. D. T. Sharples. 645, 874 Liquid separating bags, J. T. Meats. 685, 892 Loom for weaving bags, J. T. Meats. 685, 892 Loom harness operating mechanism, E. Monhof. 685, 857 Loom stop motion. J. Cwerka. 685, 992 Mail box, P. W. Fromhold. 685, 857 Mattrix distributing machine, E. S. Crane. 685, 902 Mantle support, W. C. Homan. 685, 885 Metal shearing pulverulent articles, apparatus for, C. J. Holm. 685, 885 Metal shearing paratus for utilizing effects fransmitted from a distance to a receiving device through, N. Tesla. 685, 920 Natural media, apparatus for utilizing effects transmitted from a distance to a receiving effects transmitted through, N. Tesla. 685, 955 Natural media, intensifying and utilizing effects transmitted through, N. Tesla. 685, 955	Lamp, N. Johnson Lamp air feeding and he	eating de	evice, W. H.	686,079
Lenses, axis finder for, C. B. Elliott	Payne	H. P.	Wellman	685,791 686,172 686,219
Lenses, axis finder for, C. B. Elliott	Lamps, single burner fo Lap robe holder, J. A.	r vapor, Cote	A. Kitson.	686,086 685,974
Lenses, axis finder for, C. B. Elliott	Latch, W. D. Campbell Lathe clamping device, S	S. Neum	ann	$685.969 \pm$
Lenses, axis finder for, C. B. Elliott	Leather working machin G. H. Forbush	ne clean	er and drier,	686,219
Lacey	Lifting jack, H. W. Arr Linotyping and typeset	o. B. El nstrong. ting ma	chine, A. S	685,811
Lacey	Gilman	ugal. D.	T. Sharples.	685,980 685,874
Lacey	Loading device, J. Stra Locking book, self, F	de Kaas ub G Gasel	hlin	686,163 685,915
Lacey	Loom, Harriman & Bell Loom for weaving bags,	J. T. M	leats	686,060 685,855
Metal shears, H. John	Loom for weaving turted Loom harness operati	ing med	chanism, F.	685,992
Metal shears, H. John	Loom shuttle actuating hof	mechani	ism, E. Mon-	685,857
Metal shears, H. John	Lubricator, G. S. Lee Mail box. P. W. Frombo	verka old		685,746 685,922 685,914
Metal shears, H. John	Malting apparatus. B. Mantle support, W. C.	Berg Homan.	g	685,904 685,763
Metal shears, H. John	Measuring pulverulent for, C. J. Holm	articles	s, apparatus	685,988
Metal shears, H. John	Mercerizing machine, C Metal shearing or cutt	. L. We	chine, W. E.	685,889
Mining separator, placer, J. N. Lewis 685,733 Mop head, C. Morgan. 885,858 Mon wringer, R. E. & H. Thibault 685,882 Motor, A. W. Smith 688,152 Motor starting and controlling device, C. W. Kragh 685,920 Music leaf turner, Kieff & Trahan 685,984 Musical instrument, A. Heck 685,920 Natural media, apparatus for utilizing effects transmitted from a distance to a receiving device through, N. Tesla. 685,955 Natural media, apparatus for utilizing effects transmitted through, N. Tesla. 685,956 Natural media, intensifying and utilizing effects transmitted through, N. Tesla. 685,953 Natural media, utilizing effects transmitted	Metal shears, H. John. Metals, hardening, C. J.	Johnson	1	686.226 685,842
Mining separator, placer, J. N. Lewis 685,733 Mop head, C. Morgan 885,858 Moo wringer, R. E. & H. Thibault 685,882 Motor, A. W. Smith 688,152 Motor starting and controlling device, C. W. Kragh 685,920 Music leaf turner, Kieff & Trahan 685,984 Musical instrument, A. Heck 685,920 Natural media, apparatus for utilizing effects transmitted from a distance to a receiving device through, N. Tesla 685,955 Natural media, apparatus for utilizing effects transmitted through, N. Tesla 685,956 Natural media, intensifying and utilizing effects transmitted through, N. Tesla 685,953 Natural media, utilizing effects transmitted	Milling machine, H. M. Mine door operating	Norris.	sm. W. W.	685,934
Music leaf turner, Kieff & Trahan	Mining separator, places	. J N.	Lewis	685.773
Music leaf turner, Kieff & Trahan	Mon wringer, R. E. & Motor, A. W. Smith	H. Thib	ault	685,882 686,152
transmitted from a distance to a receiving device through, N. Tesla	Motor starting and cont	rolling o	levice, C. W.	685,852 686,084
through M Togle	Musical instrument, A. Natural media, apparatu	Heck	ilizing effects	685,920
through N Togle	transmitted from a ing device through, Natural media, apparatu	n. Tes us for ut	to a receiv- lailizing effects	685,955
through N Togle	transmitted through	n, N. Te	slaand utilizing	685,956
Number of Mullens 686,109  Non-conducting covering, R. H. Martin 685,780  Nut lock, W. Hancock 685,761  Nut lock, R. P. McNutt 685,061	through N Togle	g check	о станошисес	695 054
Nut lock, R. P McNutt ces 007	Non-conducting covering Not lock, W. Hancock	k, R. H.	Martin	685,780 685,761
Oils, desnifurizing petroleum, T. F. Colin. 685,907  oils, treatment and conveyance of mineral, A. F. L. Bell. 685,902				





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Son nachine, E. Barthelmess. Packing, rod, J. S. Klein. Pail, dinner, O. R. Atwell Pail holder, milk, T. Madden. Painter's platform, C. S. & F. O. Sprague. Paper box, J. A. Scott. Paper receptacle, J. H. McKendrick. Paper winding machine, G. S. Witham. Pen, fountain, F. H. Green. Photographic negatives on single plates or	685,921 685,736
Pail holder, milk, T. Madden	685,998
Painter's platform, C. S. & F. O. Sprague	685,998 686,159
Paper box, J. A. Scott	686,146
Paper recentacle, J. H. McKendrick	685,789
Pen, fountain, F. H. Green	686,180 685,918
Pen, fountain, F. H. Green. Photographic negatives on single plates or films, means for taking a series of, G. J. Miller	
films, means for taking a series of, G. J.	686,001
	•80,001
automatic, J. H. Molinari	685,924
automatic, J. H. Molinari	000 105
son & Palm	686,187
Davis	685,749
Davis Pins with glass, machine for heading, E. Schumgeher	
Schumacher Pipe coupling, R. M. Close. Pipe coupling, J. M. Sweeney. Pipe cutting off and threading device, A.	685,948
Pipe coupling, J. M. Sweeney	685,818 686,164
Pipe cutting off and threading device, A.	000,101
Rector	685,869
Pipe threading machine, S. A. Connell	685,819
Plaiting apparatus, J. Davis	686,032
sen	686,188
Planter, corn, G. A. Peterson	685,941 685,995
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Prow guide and gage, J. S. Lindsey.  Pneumatic despatch tube apparatus terminal, J. T. Cowley.  Pole changer, W. F. Warner.  Polishing or grinding machine, E. D. Woods.  Postmarking mechanism for mail boxes, P.  W. Frombald.	685,824
Pole changer, W. F. Warner	685,887
Postmarking mechanism for mail hoves. B.	686,018
W. Fromhold	685,913
W. Fromhold	686,121 686,179
Pressure and vacuum gage, C. A. G. Winther	686,179
Pressure regulator, Alexander & Schoon-maker  Printing machine, F. Forste.	686,019
Printing machine, F. Forste	686,047
Printing press, Scott & Weseman.	686,147 686,132
Pulleys, making, W. E. Rockwood	686,132
on, H. Mundlos	685,926
Pump, C. C. Worthington	686,181
Pump connection, air, S. E. Hart	686,061
Pump or blower, rotary, T. J. Lindsay	685,843 685,775
Printing machine, F. Forste.  Printing press, Scott & Weseman.  Pulleys, making, W. E. Rockwood.  Pulleys, means for placing bands or the like on, H. Mundlos.  Pump, C. C. Worthington.  Pump connection, air, S. E. Hart.  Pump, gasolene, C. J. Johnson.  Pump or blower, rotary, T. J. Lindsay.  Punka or fan for ventilating purposes, A.  O. Dowson.	
O. Dowson	686,211
Radiant energy apparatus for the utiliza-	
Radiant energy, apparatus for the utilization of, N. Tesla. Radiant energy, utilizing, N. Tesla. Radiator, G. M. Alysworth. Rail joint, W. H. Norris.	685,957
Radiant energy, utilizing, N. Tesla	685,958
Radiator, G. M. Alysworth	686,190 686,117
Railway crossing plank, metal, G. A. Fisher.	685,979
Rail joint, W. H. Norris. Railway crossing plants, metal, G. A. Fisher. Railway joint, N. Benjamin. Railway motor controller, electric, Garrett & Stull Railway motor controller, electric, Merrick & Stull	685,737
Railway motor controller, electric, Garrett	00E 7EE
Railway motor controller, electric, Merrick	685,755
& Stull Railway rail joint, E. B. Murray	685,781 686,111
Railway rail joint, E. B. Murray	686,111 685,782
Railway signaling device, J. Merryweather Railway spikes, claw bar for drawing, N. L. Smitham	
I. Smitham	686,155 685,739
L. Smitham Railway tie, metallic, J. H. Bryan Railway track anchoring device, D. B. Lit-	685,739
tlefield	685,996
tlefield Railway track structure, E. B. Entwisle Ratchet wrench, G. W. McKim Razor, safety, A. W. Scheuber	685,752
Ratchet wrench, G. W. McKim	686,237
Razor stropping device. A Fornander	686,143 685,912
Razor, Satety, A. W. Scheuber.  Razor stropping device, A. Fornander.  Razor stropping device, H. Herder.  Rein guide and supporter, C. I. Ormsbee.  Reinforced comb, E. Boyard.  Relay, H. Shoemaker.  Roasting furnace, J. A. Bentley.	686,066
Rein guide and supporter, C. I. Ormsbee	685,861
Relay H Shoemaker	686,198 686,007
Roasting furnace, J. A. Bentley	685,903
Rolling mill, S. M. Guss	685.981
Rolling mill guide, S. M. Guss	686 101
Root hook, W. Smith	685,760 686,191 686,153
Rotary engine, C. V. Rousseau	685,799
Rotary engine, S. E. Kochendarfer	
Sad iron M Jorge gee non	686,089
Sad iron, M. Joyce	686,089 686,081
Sad iron, M. Joyce	686,089 686,081 685,808 685,809
Sad iron, M. Joyce	686,089 686,081 685,808 685,809 686,227
Sad iron, M. Joyce	686,089 686,081 685,808 685,809
Sad iron, M. Joyce	686,089 686,081 685,808 685,809 686,227 680,184
Relay, H. Shoemaker. Roasting furnace, J. A. Bentley. Rolling mill, S. M. Guss. Rolling mill, S. M. Guss. Rolling mill guide, S. M. Guss. Roof covering, W. H. Bache. Root hook, W. Smith. Rotary engine, C. V. Rousseau. Rotary engine, S. E. Kochendarfer. Sad iron, M. Joyce. Saddle, harness, D. D. Wieand. Sash holder and fastener, O. Williams. Saw, coping of scroll, A. Jones. Saw filing machine, C. Young. Sawing machine attachment, log, F. E. Bartholomew. Scale beam deweighting device, W. F. Braun	686,089 686,081 685,808 685,809 686,227 680,184 685,812 686,199
Sad iron, M. Joyce	686,089 686,081 685,808 685,809 686,227 680,184 685,812 686,199 685,878
Sad iron, M. Joyce	686,089 686,081 685,808 685,809 686,227 683,184 685,812 686,199 685,878 686,196 686,203
Sad iron, M. Joyce. 686,080, Saddle, harness, D. D. Wieand. Sash holder and fastener, O. Williams. Saw, coping or scroll, A. Jones. Saw fling machine, C. Young. Sawing machine attachment, log, F. E. Bartholomew. Scale beam deweighting device, W. F. Braun Scale, computing price, E. F. Spaulding. Scale, vehicle, T. Bennett. Scraper for scraping coal, etc., J. Campbell. Screw driver, A. Johnson.	686,089 686,081 685,808 685,809 686,227 680,184 685,812 686,199 685,878 686,196 686,203 686,078
Scale beam deweighting device, W. F. Brain Scale, computing price, E. F. Spaulding Scale, vehicle, T. Bennett. Scraper for scraping coal, etc., J. Campbell. Screw driver, A. Johnson. Screw driver, G. T. Bailey	686,089 686,081 685,808 685,809 686,227 680,184 685,812 686,199 685,878 686,196 686,203 686,078 686,192
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Scale beam deweighting device, W. F. Brain Scale, computing price, E. F. Spaulding Scale, vehicle, T. Bennett. Scraper for scraping coal, etc., J. Campbell. Screw driver, A. Johnson. Screw driver, G. T. Bailey Scam for sewed articles, Dahl & Dixon Scat for relieving piles. P. Kendrick	686,089 686,081 685,808 685,809 686,227 683,184 685,812 686,199 685,878 686,196 686,203 686,078 686,078 686,031 686,031 685,989
Scale, computing price, E. F. Spaulding Scale, vehicle, T. Bennett. Scraper for scraping coal, etc., J. Campbell. Screw driver, A. Johnson. Screw driver, G. T. Bailey. Scam for sewed articles, Dahl & Dixon. Seat for relieving piles, P. Kendrick. Seat post, spring, G. W. Snyder Seeder, broadcast, J. C. and E. Abbott	686,089 686,081 685,808 685,809 686,227 683,184 685,812 686,199 685,878 686,196 686,203 686,078 686,192 686,031
Scale, computing price, E. F. Spaulding Scale, vehicle, T. Bennett. Scraper for scraping coal, etc., J. Campbell. Screw driver, A. Johnson. Screw driver, G. T. Bailey. Scam for sewed articles, Dahl & Dixon. Seat for relieving piles, P. Kendrick. Seat post, spring, G. W. Snyder Seeder, broadcast, J. C. and E. Abbott	686,089 686,081 685,808 685,809 686,227 683,184 685,812 686,199 685,878 686,196 686,203 686,078 686,078 686,031 686,031 685,989
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 for, F. H. Chilton
 685,815

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(Continued on page 320)

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Typewriter, C. Spiro.
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Quimby
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Typewriting machine, F. W. Hillard.
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Valve, J. E. Claytor.
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Vehicle wheel, J. H. Judge.
Velocipede driving mechanism, F. A. Kelley.
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