RECENTLY PATENTED INVENTIONS.

Apparatus for Special Purposes.

PROCESS OF TREATING FLOUR.—J. M. WILLIAMS, Guthrie, Oklahoma Ter. In this patent the invention is in the nature of a process for whitening, aging, disinfecting, increasing the absorption of, and otherwise improving flour. It consists in subjecting the flour while in a state of agitation to the gases formed by the electrolysis of water or other liquids or compounds capable of generating oxygen.

Electrical Devices.

COMPRESSED-AIR SUPPLY FOR ELECTRIC VEHICLES.—R. LEB. OWEN and R. O. LE BARON, Pontiac, Mich. The invention relates to fluid-pressure brakes used on electric street cars and other vehicles; and its object is to provide a device for automatically supplying the compressed air required for working the fluid-pressure brakes, the device being actuated during the time the electric power is shut off in stopping the vehicle, thus utilizing the power ordinarily wasted.

Of Interest to Farmers.

INCUBATOR-BROODER.—C. H. SPERLE, Boundbrook, N. J. In this case the objects are to secure as nearly as possible the actual conditions obtaining in the operation of hatching eggs naturally. Mr. Sperle has discovered that the hatching-bird in addition to heating, rolling, and cooling the eggs also clutches them, while the air circulates around them without drafts, an operation not performed by any incubator heretofore known. A further object is to protect the young birds the first sixty days of their lives.

HAND-PLOW PROPELLER.—L. W. AVANT, Atascosa, Texas. One of the chief objects of this inventor is to enable the point at which the propelling force is exerted to be shifted vertically in order that the plow attachment may be adjusted to accommodate operators or plowmen of different heights; secondly, the attachment is so constructed that the force applied by the operator may be varied in its relation to the plow as conditions require; thirdly, the invention includes means for applying the attachment to the plow-handles, which are separated more or less from each other.

Of General Interest.

ARTIFICIAL TOOTH.—F. L. PRIEST, Dallas, Texas. In this patent the purpose of the invention is the provision of a solid or practically solid surface upon the back face of teeth in order to hold the faces firmly to a gold bridge or to a plate at all points, especially at the tips of the teeth.

REST DEVICE.—R. W. SCHROEDER, Bloomington, Ill. The aim in this instance is to provide a rest device more especially designed for use on the backs of chairs, school-desks, couches, and like pieces of furniture and arranged to properly support the back and sides of the person occupying the chair, to avoid undue fatigue and allow natural respiration, and to prevent deformities of the chest and shoulders.

CONDENSER FOR VACUUM-PANS.—J. F. UTRILLA, Jersey City, N. J. This invention has reference particularly to improvements in condensers used in connection with sugar-machines, an object being to provide a simple means for drawing gases from the condenser and dispensing with the vacuum-pump usually employed.

FLY-CATCHER.—J. SCHNELL, Macon, Ga. In this instance the invention is an improvement in that class of fly-catchers in which a continuous cord or strip of fibrous material is drawn through a body of tacky liquid and is subsequently cut off in suitable lengths for use in various localities.

CORNER-IRON FOR SIDING-JOINTS.—J. SIMPSON, Veedersburg, Ind. The purpose of the improvement is to provide corner irons or plates for the siding-joints of frame buildings, which corner-irons will render the joints impervious to water at the corners of the house, particularly such houses as are sided with shingles or clapboards.

Machines and Mechanical Devices.

MOTOR-CONTROLLED FAN.—C. S. WARNOCK, Americus, Ga. Mr. Warnock's invention relates to improvements in motor-actuated fans, especially fans operated by a spring-actuated motor. The purpose is to provide a device wherein the fan-blades or fly-brushes will operate with vibratory motion, enabling the device to be placed upon a table or support quite close to a person, without inconveniencing him. Means hold the fan or brush carrying arms in operating connection with a rocking support, together with means for imparting a cushioned vibratory motion to the racking support from a shaft, and also provide ready lateral and vertical adjustment for the fan-carrying arms. The claim is that the inventor's working model has proved entirely successful in operation.

Railways and Their Accessories.

VALVE.—W. T. HARRISON, Savannah, Ga. In this case the invention refers to improvements in valves for controlling the outflow of water from railroad-tanks, an object being to provide a valve so constructed that it may be readily removed for repairs without first running the water out of the tank, and, further, to provide a simple means for preventing the rattling or jumping of the valve.

CABLE-TRACTION SYSTEM.—G. W. SANDERS, Gadsden, Ala. In this patent the invention has reference to cable-traction systems, and has for its principal object the provision of an effective means for operating cars in either direction along a track. Mr. Sanders' system is very simple in construction and operation and subjects the cable to but slight wear.

RAILWAY-SWITCH.—M. BARNES, Syracuse, N. Y. In this case the invention relates to improvements in switches, particularly for use on street-railways, an object being to provide a simple switch that can be moved by a motorman without stopping the car to direct the car in any one of three directions.

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 the invention, and date of the paper.

Business and Personal Wants.

READ THIS COLUMN CAREFULLY.—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. 6002.—For information concerning the manufacture of fish hooks.

AUTOS.—Duryea Power Co., Reading, Pa.

Inquiry No. 6003.—For makers of electrically driven hammers for riveting steel posts and plates.

"U. S." Metal Polish. Indianapolis. Samples free.

Inquiry No. 6004.—For makers of small air-cooled marine and stationary gasoline motors.

Perforated Metals, Harrington & King Perforating Co., Chicago.

Inquiry No. 6005.—For machinery required in the manufacture of furniture.

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

Inquiry No. 6006.—For makers of carts, trucks, etc., for heavy service.

If it is a paper tube we can supply it. Textile Tube Company, Fall River, Mass.

Inquiry No. 6007.—For manufacturers of silicate of soda, or so-called liquid glass.

WANTED.—Addresses of importers and consumers of bamboo. D. F. Mitchell, Jacksonville, Fla.

Inquiry No. 6008.—For manufacturers of slot machine scales.

Sawmill machinery and outfits manufactured by the Lane Mfg. Co., Box 13, Montpelier, Vt.

Inquiry No. 6009.—For parties engaged in malleable casting work, brass work, etc.

American inventions negotiated in Europe. Wenzel & Hamburger, Equitable Building, Berlin, Germany.

Inquiry No. 6010.—For manufacturers of carpenters' tools.

Agents wanted to sell the Ryede puzzle. Sample by mail for 10c. Ryede Specialty Works, Rochester, N. Y.

Inquiry No. 6011.—For makers of prism glass.

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

Inquiry No. 6012.—For manufacturers of cork-cutting machinery.

Patented inventions of brass, bronze, composition or aluminum construction placed on market. Write to American Brass Foundry Co., Hyde Park, Mass.

Inquiry No. 6013.—For makers of cheap, small, water-cooled gasoline engine castings with working drawings included.

For Sale or on Royalty.—Three United States and Canadian patents on heating stoves and furnaces; or would like to incorporate. F. G. Pioch, Provo, Utah.

Inquiry No. 6014.—For manufacturers of machinery for sawing and quarrying sand stone.

NEW INVENTION.—Receipt for shoe polish, the best ever invented. For sale by chemist. Address Chemist, Box 773, New York.

Inquiry No. 6015.—For the manufacturers of the Mitchell gasoline automobile.

☞ 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. 6016.—For manufacturers of addressing machines.

In buying or selling patents money may be saved and time gained by writing Chas. A. Scott, 719 Mutual Life Building, Buffalo, New York.

Inquiry No. 6017.—For manufacturers of life preservers for use on steamers.

We manufacture anything in metal. Patented articles, metal stamping, dies, screw mach. work, etc., Metal Novelty Works, 43 Canal Street, Chicago.

Inquiry No. 6018.—For makers of stills.

WANTED.—Back numbers: Automobile, October, 1900; Motor Vehicle Review, 1902; Motor Age, 1900; Motor Age, 1901. Mrs. C. F. MacDermot, Hotel Touraine, Boston, Mass.

Inquiry No. 6019.—For manufacture of aerated water.

Manufacturers of patent articles, dies, metal stamping, screw machine work, hardware specialties, machinery and tools. Quadriga Manufacturing Company, 18 South Canal Street, Chicago.

Inquiry No. 6020.—For a machine for printing on toothbrush handles.

FOR SALE.—Patent on rotary engine, explosive. Patent No. 759,953. The only rotary explosive engine that confines the gasoline in the explosion chamber till it has great force before it strikes the piston. D. V. Bagwell, 4340 Papin Street, St. Louis, Mo.

Inquiry No. 6021.—For manufacturers of bottle corks.

D. A. Beaton, Practical Lead Burner, P. O. Box 334 Woburn, Mass. Fifteenyears' experience.

Inquiry No. 6022.—For dealers in stamped and tinted sofa pillow covers.

Inquiry No. 6023.—For importers of tea and coffee.

Notes and Queries.

HINTS TO CORRESPONDENTS.

Names and Address must accompany all letters or no attention will be paid thereto. This is for our information and not for publication.

References to former articles or answers should give date of paper and page or number of question.

Inquiries not answered in reasonable time should be repeated; correspondents will bear in mind that some answers require not a little research, and, though we endeavor to reply to all either by letter or in this department, each must take his turn.

Buyers wishing to purchase any article not advertised in our columns will be furnished with addresses of houses manufacturing or carrying the same.

Special Written Information on matters of personal rather than general interest cannot be expected without remuneration.

Scientific American Supplements referred to may be had at the office. Price 10 cents each.

Books referred to promptly supplied on receipt of price.

Minerals sent for examination should be distinctly marked or labeled.

(9461) G. W. T. says: Seeing that your publication answers almost anything in the scientific line, I would be pleased to know if you can tell me of some substance that a magnet will not draw through. A. Magnetic attraction takes place through all excepting magnetic substance. Practically, iron is the only available magnetic screen. If a magnetic needle is inclosed in iron, exterior magnetism will affect it but little. The iron should be rather thick—at least a quarter of an inch. The reason for the screening action of iron is that magnetic lines of force pass through iron more easily than through other materials. When iron lies in their path they take to it, and do not pass through the adjacent air. A needle inclosed in iron is thus screened from magnetism.

(9462) K. A. E. asks: Will you kindly answer me in the Notes and Queries of the SCIENTIFIC AMERICAN the following question: How is nickel-plating to be made? A. For plating with nickel, the double sulphate of nickel and ammonia is almost universally used. The salt is dissolved by boiling, taking 12 to 14 ounces to 1 gallon of water. The density of the electrolyte should be 6.5 deg. to 7 deg. Baumé. Cast anodes are preferred. These should be large enough to reach to the bottom of the work, and have a surface larger than the work to be plated. The voltage may be from 3.5 to 6 volts, while the current should be from 1 to 2 amperes for every 37.5 square inches to be plated. For full instructions we would refer you to Watts' "Electro-Plating," which we can furnish for $4.50, or to Langbein's "Electro-Deposition of Metals," price, $4. Van Horne's "Modern Electroplating," price $1, is a good, though small, book, which may be a sufficient guide.

(9463) A. E. F. says: 1. How can I determine when the condenser of an induction coil is of proper size? What is the effect of one too large? A. An induction coil gives its greatest length and intensity of spark only when the condenser is of the proper size. The spark is diminished if the condenser is either too large or too small. 2. I have a small spark coil of the following dimensions: Length inside of end pieces, 3 inches; diameter of core, 9-16 inch; primary winding, two layers No. 18; secondary winding, 3 ounces No. 36 cotton-covered wire; diameter to outside of secondary winding, 1 11-16 inches. I have been able to obtain a ½-inch spark with this coil, and would like to know how to proceed to construct one of say twice the spark length of this one. My reason for asking this is that I seem to have acquired, with a small amount of secondary wire, the results which are obtained with ¾ of a pound of No. 36 silk-covered wire according to the usual directions for making such coils, but I do not know how to proportion the dimensions for a larger coil on the same lines in order to obtain the best results. A. The proportioning of coils is the result of experience. Of course, there are formulas for expressing the data of construction, but we do not think the ordinary mechanic employs them. To make a coil to give a spark twice as long as another coil, you will not be required to make the dimensions twice as great, but something less than this. All dimensions should be increased. A set of coils from the same shop will usually present a symmetrical increase of power. 3. Should I increase the length, the diameter of the core, use a larger size wire for the primary and increase the diameter of the secondary winding, and in what proportions? Also, if this admits of a direct answer, what is a practical maximum diameter of an induction coil, compared to its length? A. Different manufacturers differ in designing coils, and it would be difficult, if not impossible, to reduce the ratio of length to diameter. 4. If the outside end of the secondary wire is prevented from coming near any part of the primary circuit, is there any tendency to break down the insulation between the primary and secondary windings? If so, why? A. There is a tendency to break down the insulation of the secondary at all points, the greatest at points most widely separated. The reason for this is that the electromotive force rises in the secondary from the negative to the positive end proportionately to the number of turns of wire.

NEW BOOKS, ETC.

ELECTRICITY AND MATTER. By J. J. Thomson, D.Sc., LL.D., Ph.D., F.R.S. New York: Charles Scribner's Sons, 1904. 8vo.; pp. 162. Price, $1.25.

This book contains six lectures given by Prof. Thomson in May of last year, at Yale University. In them he discussed the bearing of the recent advances made in electrical science on our views of the constitution of matter and the nature of electricity. The relation between matter and electricity, which has been a characteristic feature of recent electrical researches, such as the study and discovery of Roentgen rays and radium, is here very thoroughly discussed. The book contains chapters on the "Representation of the Electric Field by Lines of Force"; "Electrical and Bound Mass"; "Effects Due to the Acceleration of Faraday Tubes"; the "Atomic Structure of Electricity"; the "Constitution of the Atom"; and "Radio-activity and Radio-active Substances."

ATLANTE DI MACCHINE E CALDAIE CON TESTO E NOTE DI TECNOLOGIA. Per Salvatore Dinaro. Milan: Ulrico Hoepli, 1903. 16mo.; pp. 80.

This is a useful handbook on steam boilers, steam engines, gages, and various kinds of steam machinery. It is abundantly illustrated with 112 full-page diagrams.

RICETTARIO INDUSTRIALE. By Ing. I. Ghersi. Milan: Ulrico Hoepli, 1904. 16mo.; pp. 703.

This is a book of valuable receipts for all trades, arts, and industries. It is arranged in alphabetical order, and, besides the receipts, there are a number of physical and chemical tables of value.

DIE WETTERKRÄFTE DER STRAHLENDEN PLANETENATMOSPHÄREN. Von C. Marti, Sekundar-Lehrer in Nidau, Schweis. Nidau: Buchdruckerei E. Weber, 1904. Pp. 40.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending September 13, 1904

AND EACH BEARING THAT DATE

[See note at end of list about copies of these patents.

Adding machine, S. H. Drysdale	769,892
Advertising display means, J. W. May	769,868
Air brake coupling, automatic, F. M. Caron	770,160
Air brake mechanism for cars, automatic, W. Sauvage	769,838
Air brake mechanism for railway cars, automatic, W. H. Sauvage	769,839
Amusement apparatus, C. V. Johnson	770,071
Artillery, naval or military, G. C. J. Topp.	770,200
Atomizer, I. Q. Gurnée	769,741
Automatic regulator, W. S. Moody	770,017
Axle box lubricating packing holder, car, J. S. Patten	770,242
Bagging machine, D. L. Whittle	769,783
Baling press, F. G. Davies	769,692
Baling press, J. Kemp	769,826
Battery plate mold, Wood & McMullan	770,139
Bed bottom, N. R. Murphy	770,000
Bedclothes clamp, A. Grandjean	770,003
Bell, P. C. Arnold	770,211
Belt guide, automatic, G. S. Thompson	769,850
Belt or chain, link, C. M. Lewis	770,081
Belting, T. Gingras	770,063
Bicycle coaster brake and hub, S. N. Rapp.	769,918
Bicycle pedal toe clip, C. F. Cooper	769,940
Bill head or statement sheet and envelop, W. H. Bassinger	769,933
Binder and lock therefor, H. E. Dade	769,857
Binder, loose leaf, C. R. Nelson	770,020, 770,021
Binder, temporary, J. B. Barlow	769,686
Block. See Tramway block.	
Block signal system, F. B. Corey	769,983
Bluing stick, L. N. Iuppenlatz	769,800
Boiler furnace, steam, D. L. Shaffer	770,122
Bolt anchor, H. B. Newhall	770,022
Book, lodge account, and receipt, J. C. Scoggins	770,120
Bookcase, sectional, J. Mauro	769,705
Boring machine, C. W. H. Blood	770,156
Bottle, J. Fitzpatrick	769,894
Bottle, non-refillable, W. V. K. Ayres	769,979
Bottle, non-refillable, P. McGrath	770,095
Bottle or jar closure, G. T. Reed	769,960
Bottle stopper, non-refillable, J. B. Ross	770,117
Bottle washing apparatus, M. Feuerstein	769,733
Branding iron, F. France	769,735
Breathing apparatus, C. W. Madsen	769,755
Brick drying plant, G. Pagel	770,186
Brick mold, E. W. Seamans	769,771
Bridge signal, L. Allen	770,036
Broiler, F. F. Hendrickson	769,745
Brooding and nursing apparatus, stock, G. Eisold	769,942
Bucket, bait, R. H. Paar	769,874
Buckle, harness, M. E. Zeller	770,035
Building block molding press, G. H. Denton.	769,819
Bunsen burner, T. Smith	769,806
Burning apparatus, pulverulent fuel, W. F. Wolfe	769,974
Button blanks from shells, machine for manufacturing, C. Schroepfer	769,922
Button, cuff, F. E. Farnham	769,732
Cabinet, McCrory & Vogel	770,093
Cake or doughnut cutter, G. W. Baier	769,932
Calculating machine, C. M. Furman, Jr.	770,061
Calipers, C. E. Lamb	769,903
Camera, L. Nesemann	770,100
Cameras, lens carriage clamp for photographic, F. B. Case	770,220
Can body machine feed mechanism, E. Zeh.	769,927
Can closure, F. Ginet	769,899
Can or receptacle for articles of merchandise, J. C. Kimsey	770,075
Candy forming machine, B. B. Bowers	769,887
Canned substances, processing, H. C. Gardner	769,737
Car chair, G. W. Chambers	770,161
Car construction, H. F. Vogel	770,132
Car coupling, O. H. Grupe	770,004
Car door opening and closing mechanism, J. R. Carmer	769,687
Car sign turning device, electric, J. M. Smith	770,125
Car stake cap, A. A. McIntosh	770,096
Car stopper, R. R. Williams	769,926
Car, street, C. B. Price	770,107

Refrigerator, A. Woodward	769,882
Register, L. Ehrlich	769,893
Relay, McBerty & Crane	769,761
Rice-hulling machine, F. G. Dieterich	770,226
Rolling mill, tube, J. H. Nicholson	769,709
Rolling tubing, Stiefel & Nicholson	770,195
Rope fastener, Gartelman & Schnitger	770,062
Rotary generator, J. Delizy	769,891
Roundabout, Daniels & Yorutee	769,690
Roundabout, J. C. Scoggins	770,121
Sad iron heater, M. E. Hadden	770,005
Sad iron, self heating, H. B. Swartz	770,196
Sash weight molding apparatus, J. E. Price	769,959
Saw, G. G. McGill	770,094
Saw guide, swivel band, A. Pracna	770,105
Saw mill, band, W. M. Wilkin	770,136
Scale, self measuring, J. T. Jordan	769,697
Seed drill, R. Commichau	770,164
Seed drill, M. Mitchell	770,185
Seed separator, cotton, F. T. Pinter	769,711
Seeding machine feed, L. E. Roby	770,245
Sewing machine bobbin winding attachment, R. H. Legg	770,179
Sewing machine gage, M. L. Holderman	770,008
Sewing machine shuttle actuating mechanism, E. L. Bowers	770,217
Sewing or other machines, means for operating, N. Krawitzky	769,700
Shade trimming device, J. A. Tufts	770,131
Shade, window, Smith & Wilson	770,191
Shaft coupling, A. A. Ball, Jr.	770,039
Shaft lock, rotating, F. B. Case	770,219
Sharpening device, knife, T. Wilkins	769,723
Shearing machine, W. G. Prichard	769,917
Sheep shears, O. Bors	770,216
Ship steadying device, T. C. Forbes	769,693
Ships, magnetic curtain for covering leaks in, L. Kruger	770,078
Shirt holder, sample, W. A. Clark, Jr.	769,729
Shirt waist protector, M. Alshuler	769,930
Shoe heel anti-slipping attachment, P. Carroll	769,787
Shoe, low cut, W. W. Palmer	769,766
Shut off, J. G. Nehrbas	769,830
Shuttle locking mechanism, J. P. Johnson	769,801
Sickle bar, S. Hagar	770,006
Sign, street, M. Hofheimer	770,068
Signal. See Bridge signal.	
Signaling apparatus, wireless, L. De Forest	770,229
Signaling receiver, space, L. De Forest	770,228
Spider, closed, R. O. Tilden	770,027
Skirt fastener, J. Demsky	769,791
Skirt supporter, L. Wertheimer	769,970
Sleigh, Johnson & Pearson	770,010
Sliding gate, J. Trisler	770,201
Smoke consumer, R. O. Dobbin	770,171
Smoke house, E. T. Malloy	769,756
Smoking pipe, A. Parati	770,102
Snow melting apparatus, H. C. Davis	770,169
Sock lining, S. C. Whitmore	769,810
Socket number, J. D. Strickler	769,778, 769,779
Soda water apparatus, etc., valve connection for, J. Cederstrom	769,688
Sorting machine, E. M. Lamb	770,235
Spinning frame thread guide, Skinner & Hardman	770,123
Sprocket wheel, C. P. Wilhelmsen	770,206
Spur, W. T. Hanaway	769,743
Square, combined center or other, G. M. Engel	769,992
Stanchion, T. J. Wallace	770,203
Static machine plate, H. E. & H. F. Waite	770,133
Steam boiler, J. R. Lowrey	769,754
Steam boiler, Schofield & Ross	770,247
Steam generator, hydrocarbon, B. Hall	769,901
Steam trap, L. F. Zilles	770,210
Still, turpentine, J. F. Bailey	770,149
Stoker, mechanical, A. E. Woodmansee	770,143
Storage battery, J. P. Wood	769,975
Stove platform, D. McIver	769,871
String cutter, G. R. Butler	769,726
Strong box for valuables, E. M. Wood	770,142
Strop, J. L. Coesir	770,225
Stump burner, C. T. McCarroll	769,708
Surgical instrument, I. K. Mott	769,829
Swing, lawn, T. L. Good	770,002
Swing, lawn, A. S. Lowe	770,181
Talking machine, H. W. Johnson	769,696
Tamper, J. Embleton	769,943
Telegraph sounder attachment, J. F. Mickey	770,184
Telemotor for steering ships or other uses, M. Pfatischer	769,916
Telephone attachment, W. S. Haddock	769,863
Telephone desk standard, C. L. Boyce	770,157
Telephone exchange switchboard apparatus, F. R. McBerty	769,760
Telephone system, two-wire multiple, Lattig & Goodrum	769,701
Telephone transmitter, Lattig & Goodrum	769,702
Telephone trunk lines, apparatus for through ringing on, J. L. McQuarrie	769,763
Tensional lock for adjusting screws, C. F. Splitdorf	770,194
Thill shifter, J. D. Ellis	769,990
Threshing machine sieve adjuster, O. E. Olsen	769,764
Ticket and destination check or transfer combined, system of railway, F. I. Welch	769,969
Time recorder ribbon feeding mechanism, Palmer & Kimball	770,241
Tire, Sherbondy & Sturgeon	769,718
Tire protecting device, pneumatic, E. Lapisse	770,080
Tongue shaping machine, C. W. Borg	769,980
Tool motor, portable, P. La Court	769,751
Torpedo grenade, A. Baumgart	769,884
Toy, S. Brom	769,935
Toy gun, Reid & Wilson	769,919
Toy sliding axle, E. P. Lehmann	769,802
Track gage, R. D. Billington	770,213
Traction wheel, W. D. Cottrell	769,789
Tramway block, gravity, A. D. Foote	769,998
Trap, B. O. Tilden	770,129
Trolley harp, E. D. Rockwell	770,113
Trolley wheel, W. T. Wilkinson	769,854
Trousers protector, R. Fox	770,000
Trousers stretcher, W. S. Wallace	770,134
Trousers stretcher and hanger, L. Geisert	769,694
Truss, B. Lindman	769,952
Tuning device, D. M. White	769,853
Turbine wheel, elastic fluid, J. Wilkinson	770,207
Twisting apparatus, yarn, A. E. Rhoades	770,244
Type writer, card, J. F. Allard,	769,811
Type writer escapement mechanism, C. D. Rice, et al.	769,804
Type writing machine, A. M. Smith	770,192
Umbrella frame, P. Serge-Kisslow	769,877
Valve, I. N. Moore	770,088
Valve cage, pumping engine, W. Miller	769,707
Valve, convertible, Berkey & McKeever	770,154
Valve for blowing engines, automatic air discharge, A. K. Rarig	769,833
Valve reseating device, A. M. Lockett	770,180
Valve, safety, Bode & Kegler	770,043
Valve seats, securing, J. E. L. Ogden	769,831
Vehicle brake, L. G. Nilson	770,101
Vehicle chain adjustment, motor, H. Ford	769,734
Vehicle, especially that used on common roads, B. J. Diplock	769,820
Vehicle lubricator, H. B. Burdick	769,786
Vehicle, rub roller, C. G. Walker	769,881
Vehicle spring, pneumatic, B. F. Teal	770,128
Vehicles, brake leather holder for road, J. J. Russell	769,836
Vehicles, transmission gearing for motor, C. Schmidt	769,840
Veneer trunks or other hollow packages, press for wood, H. Romunder	770,114
Vessel, containing and dispensing, Blatz & Fales	770,215
Vibrator, B. L. W. & E. L. Hanfeld	769,798
Vise, pipe, Bufford & Hickman	769,814
Vitreous articles, apparatus for use in uniting, F. M. F. Cazin	770,221
Wagon and operating table, combined hospital, P. K. Bechtel	770,152
Wagon draw hook and draw bar, P. D. Doyle	769,793
Wagon, dump, T. Faulder	769,944
Wagon, dump, H. A. Moyer	770,089
Wagon, dumping, C. S. Pharis	769,957
Wagon, rotary dump, F. H. Tuxill	769,782
Wagon, sand, S. W. Albertson	769,977
Wagon seat, reversible, M. A. Schuster	769,876
Washer, C. G. Ette	769,731
Washing machine, P. Cunneen	769,818
Washing machine, S. W. Anderson	769,883
Washing machine, E. L. Davis	769,890
Watchcase opener, R. H. Paar	769,873
Watch charm, J. McLean	769,912
Water gage, E. C. & C. B. Wood	770,141
Water heater, G. H. Minier	769,953