RECENTLY PATENTED INVENTIONS. Engineering.

ROTARY ENGINE.—David Berry, Fish Rock, Cal. This engine has a cylinder in the head of which is mounted a drive shaft on which is a wheel provided with a number of pistons sliding radially to engage the sides between the rim of the wheel and the rim of the cylinder, the pistons being forced into outermost position by springs, so that in passing over a permanent abutment projecting into the sides between the wheel and cylinder, the pistons slide inwardly owing to the yielding of the springs. The construction is designed to be durable and very effective, the arrangement per, mitting of conveniently reversing the engine when de-

Mechanical.

FLANGE WRENCH.—William H. Brock. Brooklyn, N. Y. This wrench is especially adapted for screwing flanges upon pipes, and may be used right hand or left hand, to remove a flange as well as screw one on. The head has a biting face on each side, and is provided with a handle and an arm pivotally connected to the head and extending beyond the biting faces, a stud projecting parallel to its pivot pin.

MACHINE FOR DRILLING COUNTER-SINKS .- Lemuel Churchill, Three Oaks, Mich. For forming oblong countersinks for the reception of elliptical bolt heads, this inventor provides a drilling tool with a cutting head having a smooth non-cutting point extending beyond the cutting edges of the head, and forming a fulcrum for the tool. The shank of the tool is secured in a socket of a drill shaft turning in a sleeve sliding and turning in a block which slides in a segmental slot in the frame, which may be readily raised and lowered to bring the cutting edges to desired

Pumping Jack.-Emmett R. Curtin, St. Mary's, Ohio. This is a simple and inexpensive jack which may be easily erected on the derrick of an oil well to form a smooth working connection with the pump rod, without bending or cutting it, and which may be connected with an ordinary reciprocating piston, the jack to be worked either side up. The body of the jack is in the form of a bell crank, consisting preferably of two parallel pipes arranged so that their upper ends lie horizontally and their lower ones vertically, the pipes being connected on opposite sides of their elbows by tie plates. The pipe bell crank is seated and bolted in longitudinal grooves of a saddle, and the pump rod is connected with the pipes by a holder through which the pipes slide as they move up and down when the pump rod is reciprocated.

WOOD STRIP CUTTING MACHINE. -Robert Schleicher and Charles Heimerdinger, Louisville, Ky. For cutting strips for lining boxes and other purposes to the desired length and also to the miter, these inventors have devised a machine in which a reciprocating cutter head carries the knives for cutting and mitering the strips, while a variable feed mechanism operates in conjunction with the head to feed the strip forward to the desired length during the return stroke of the head. The machine may be made single, but is preferably constructed with double tables and a double cutter head, when one operator can conveniently attend to it.

COMPOUND DRIVING GEAR.—Thomas H. Savery, Wilmington, Del. A fast speed pulley and a slow speed pulley are, according to this improvement, both adapted to be connected with the driving shaft of a machine, a friction clutch locking one to the driving shaft and a positive clutch locking the other, either clutch being engaged at will, while the positive or slowdriving clutch will not be disengaged before the friction or fast-driving clutch is put in engagement. If desired, neither clutch will be in engagement. The improvement relates especially to paper machines, permitting the couchers, first press, second press and calenders to be driven at a very fast speed and started simultaneously or singly without danger of shock.

Miscellaneous.

ELECTRIC ANNUNCIATOR.—William J. Clarke, Trenton, Canada. This improvement is applicable to all electric call bell systems requiring more than ten indications. By its use eleven wires are required for the first ten rooms, then one additional wire for every ten rooms up to one hundred, and after that only one additional wire for every one hundred rooms. The annunciator face has drops in segregated groups, instead of for each single room, the number of a room being indicated by the falling of a drop in two or more groups, as room 125 would be indicated by drop 1 in hundreds group, drop 2 in tens group, and drop 5 in units group, all operated by the single push button of room 125, and only thirty drops being required for a thousand rooms.

SWING-BACK CAMERA ADJUSTER. Henry J. Hall, Wickford, R. I. This is a horizontal swing attachment permitting the camera to swing to the right or left from normal position about thirty degrees, the attachment being applicable to any form of camera and easily manipulated. It consists of a support on which is pivoted a sill, both sill and support having extensions one above the other, each having a transverse slot, and one of the extensions having a longitudinal slot, adjacent to which is a rack, while carried by a lever is a pin adapted to travel in the slots of the extensions the pin carrying a pinion which may be locked.

FILTER.—Charles Ashurst, Paris, Ky. This is a device for use in connection with the discharge spouts of buildings, the first water passing to the filter being passed to a waste pipe, while succeeding portions go through the filtering material to the cistern or other receptacle. When the rain ceases the contents of the filter are automatically drained in such manner that the drainage washes out and discharges into the waste outlet all sediment and other accumulations, leaving the filter in a cleanly condition.

Dallas, Texas. This saddle has a short, rigid tree, to the diagrams illustrating various optical illusions, and other rear edge of which are secured flexible leather pieces ex- | matter bearing upon the subject.

tending the length of the body of the saddle, to serve as a filling and stiffening, top and under pieces being sewed ogether at their edges to inclose the filling. The saddle is thus designed to be more comfortable to the rider and better adapted for horses having backs differing in shape, from its front portion being rigid and its body and rear portion flexible.

HARNESS SADDLE.—John D. Fletcher, Murfreesborough, Tenn. This saddle has a leather backing to which a detachable leather lining is united by lacing cords, and two inflatable rubber cushions are arranged one on each side of the middle line of the pad within the lining, the cushions being provided with a valved nipple and solid ends with eyelets through them, through which are passed cords to hold them in place within the outer case. The saddle is designed to promote the comfort of the animal, always remaining soft and cool and readily adapting itself to the shape of the horse's back.

MOISTENER AND PAPER WEIGHT. Harvey R. Harris, Michigan City, Ind. The casing of this device has a weighted lower portion and an upper compartment with inclined bottom, the sponge or moisture receiving substance being placed in the upper compartment, which has a forward overhanging portion open at the bottom, whereby the moisture will always seek the lower exposed part of the sponge, the part to be pressed by the article to be moistened.

TANK SUPPLY VALVES.—Augustus E. Smith. Brookville, Pa. This invention provides a controlling device for valves in water closet tanks, designed to perfect the working efficiency of the supply valve and insure its positive closing when the tank is filled to the point of overflow, also permitting of regulating the amount of overflow after the tank is filled. Combined with the supply valve is a fixed pneumatic casing apertured to permanently communicate with the tank and having an air escape of reduced diameter, whereby the liquid rises slower in the casing than in the tank when the supply valve is open, a float contained in the casing being operatively connected to the valve.

ADVERTISING DEVICE.-Joseph T. Craw, Jersey City, N. J. A card or case, according to this invention, comprises several members or leaves, but appears to have but two leaves, although it has actually six pages. The card or case may be opened from opposite sides to display different pages, and it may contain one or more pockets for railroad tickets, cards, etc. The entire device may be shaped in blank form, and it may be very inexpensively produced.

Designs.

ELECTRIC LIGHT SHADE.—Harrison D. McFaddin, East Orange, N. J. In this shade one side presents an inclosed face consisting of a shell figure, the ribs widening out to a leaf-like form at their outer or upper ends, the general effect being that of a ribbed shell supported at one side so that a portion only of the globe of the light will be exposed.

STANDARD OR BASE FOR SCALES. Edward F. Jones, Binghamton, N. Y. This standard has a stem projecting laterally from its base, the stem terminating in a number of leaves representing modified

INTERNAL COVER FOR CULINARY VESSEL.-Matej Kratky, Hemingford, Neb. This is a round cover with edge beveled downward and outward the edge having alternate recesses and projections.

Note.-Copies of any of the above patents will be furnished by Munn & Co., for 25 cents each. Please send name of the patentee, title of invention, and date of this paper.

NEW BOOKS AND PUBLICATIONS.

CHEMICAL ANALYSIS OF OILS, FATS, AND WAXES AND OF THE COMMERCIAL PRODUCTS DERIVED THEREFROM. From the German of Professor Dr. R. Benedikt. Revised and enlarged by Dr. J. Lewkowitsch, F.I.C., F.C.S. London and New York: Macmillan & Company. 1895. Pp. xviii, 683. 8vo, illustrations, tables. Cloth. Price \$7 Price \$7.

One of the most important works on chemical analysis which has appeared in English for several years. There has not hitherto been any English work dealing espe-cially with the chemical analysis of fats, oils, and waxes The analysis of fats presents an almost complete system, such as is found in no other branch of technical organic analysis, a system which will admit of application in the examination of ethereal oils, resins, balsams, and substances of a similar nature, so that, the usefulness of the present work is not limited to those who work specially in fats and oils. To the German methods have been added those of American and English fechnical chemists. so that the amalgamation of the scientific accuracy of Dr. Benedikt with the practical knowledge of those who are constantly engaged in chemical work on fats and oils cannot but prove of value to both analytical and technical chemists. The chapters devoted to the physical properties of fats and oils contain much valuable information

THINKING, DOING. FEELING. W. Scripture, Ph.D. Meadville, Pa.: Flood & Vincent. 1895. Pp. 304. 16mo, 209 illustrations. Price \$1.50.

The new or experimental psychology first arose in Germany, but being a psychology of facts and figure instead of guesswork and speculation, its appeal to the sound sense of American science has brought about such a rapid development that experimental psychology is pre-eminently the American psychology. The author of the present work is the director of the famous Yale Psychological Laboratory, and a prominent representative of the new movement. The book is not only clear and scientific, but it is also lively and entertaining On the one hand, it contains the results of special inves tigations never before accessible to the public, and on the other hand, it is written in a manner intelligible to every reader. The book is filled with illustrations show RIDING SADDLE. - Jesse D. Padgitt, ing the apparatus used in testing the senses, charts and

THE NATURAL HISTORY OF AQUATIO INSECTS. By Professor L. C. Miall, F.R.S., with illustrations by A. R. Hammond, F.L.S. London and New York: Macmillan & Company. 1895. Pp. 395. 16mo, 115 illustrations. Price \$1.75.

A delightful work for the microscopist. The author has attempted to help those naturalists who take delight in observing the structure and habits of living animals, and also to revive an interest in the writings of certain old zoologists-Swammerdam, Reaumur, Lyonnet and De Geer-who are at present unjustly neglected.

How a Good Car Differs from a Bad One, and How to Get It. Saint Louis: Published by the Brownell Car Company. Pp. 171. Oblong 16mo, 55 illustrations.

An excellent specimen of bookmaking and a good example of what the manufacturer of to-day deems necessary to put into the hands of prospective buyers to enable them to judge of the merits of the goods offered. The Brownell Car Company make the now wellknown accelerator, and the great advantages of this car are shown. One view of a crowd seen from above, showing the people's heads, is a very curious illustration.

Messrs King & Brothers, of New York and Albany, have just published an Outline of the Infringement of Patents for Inventions, not Designs, of which the author is Mr. Thomas B. Hall, of the Cleveland bar. Mr. Hall has divided the subject into four parts which, he explains, are the four questions to be logically considered in an infringement suit. These are: first, the license under the patent by which use of the patented article may be justifled; second, the identity of the patented invention and the infringing device, the absence of such being evidence of non-infringement; third, the validity of the patent, this being, of course, essential to recovery; fourth, that which is to be recovered for unlawful infringement. These subjects the author successively considers, and the law of each question is stated with a conciseness only consistent with the brevity of the work, There is appended a table of cases arranged with refer ence to their subject matter, by means of which one may be directed to the authorities for the law, and also an index of subjects. Thus equipped the book is a fine summary of the law, and an invaluable guide to an exhaustive consideration of every topic within the purview of its title.

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SCIENTIFIC AMERICAN

BUILDING EDITION

JULY, 1895,-(No. 117.)

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1. An elegant plate in colors showing a residence at Bridgeport, Conn., recently erected for Christian M. Newman, Esq. Three perspective elevations and floor plans. Cost \$5,500 complete. Architect, Mr. Samuel D. P. Williams, Williamsburg, N. Y.

A handsome residence at Glenwood, N. Y., recently erected for Wm. R. Innis, Esq. Two perspective elevations and floor plans. An attractive design.

A modern cottage of attractive design recently erected at New Rochelle, N. Y. Perspective elevation and floor plans. Estimated cost \$3,000. Architect, C. B. J. Snyder, New York City. Design in the American order of architecture.

4. A summer cottage at Great Diamond Island, Me., recently erected for Edward L. Goding, Esq. Two perspective elevations and floor plans. Cost \$2,500 complete. A picturesque design. Mr. A. Dorticos,

5. An attractive dwelling at Oakwood, Staten Island, recently erected for Mrs. Margaret Dutche. Cost \$3,800 complete. Two perspective elevations and floor plans. Architect, Mr. Herman Fritz, Jr. Passaic, N. J.

A Colonial dwelling at Springfield, Mass., erected for Messrs. J. D. and W. H. McKnight, at a cost of \$6,000 complete. Two perspective elevations and floor plans. A pleasing design. Architect, Mr. G. Wood Taylor, Boston, Mass.

Colonial house recently erected at Groton, Mass., in the style of Longfellow's home. Perspective ele vation and floor plans. Architects, Messrs. Child & De Goll, New York.

View of the Hotel Majestic, New York. One of the finest hotels in the world. Architect, Mr. Jacob Rothschild.

A cottage in the Colonial style, recently erected for Margaret Deland at Kennebunkport, Me. A picturesque design. Perspective elevation ar plans. Mr. Henry P. Clark, Boston, Mass., architect.

10. Suggestions in corner decorations.

Miscellaneous contents: Hoop poles.—How to drive rats away alive.-Dumbwaiters and elevators, illustrated. - Saws. - Translucent, fabric.-Improved spring hinges, illustrated.—Ventilated school wardrobes, illustrated.—Hanger for storm sash and screens, illustrated.—The hygienic refrigerator, illustrated.-Improved door hangers, illustrated.-Improved steam heater, illustrated. - Concrete roofs.—A trackless sliding door hanger, illustrated, —A first class hot water heater, illustrated.

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

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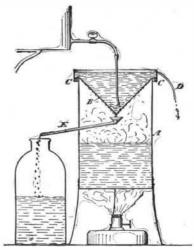
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Minerals sent for examination should be distinctly

Minerals sent for examination should be distinctly marked or labeled,

(6587) R. L. M., Jr., says: How can I make a portable distillery? A. Photographers away from cities are often at their wits' end to procure water of assured purity. The following cheap, portable and not in the way device may help them in their difficulties. A cylinder 13 inches high by 7 inches in diameter, with bottom made preferably of copper, with three legs of strap iron high enough to raise the cylinder 6 inches from the ground. To the top of the cylinder a conical lid, 814 inches in diameter (outside) and 5 inches in height from base to apex of cone, provided with a flange to fit snugly inside the cylinder. Near the base of the cone a tube 3 inches long is inserted. About 5 inches from the top of the cylinder a tube, 10 inches long, is passed through, terminating in a small furnace exactly under the apex of the cone when the cover is on. The other end projects about 3 inches on the outside of the cylinder. $\,$ Fill the cylinder about one-half full with ordinary water. If pressed for time, hot water may be used. Adjust the cover and place the apparatus over a gas or oil stove, and, by means of an India rubber tube connected with a tap, pass a gentle stream of cold water into the cover, allowing the



SECTION OF CYLINDER BODY, ETC.

13 inches high and 7 inches in diameter. B, conical lid, 81/2 inches in diameter and 5 inches in height from anex to base of cone. C. C. flanges to fit spugly inside the cylinder. D, tube 3 inches long. E, tube 10 inches long, terminating in a small funnel. Still was invented, I believe, by Mr. C. C. Neves, of England.

overflow to pass out through the tube in the cover. When the water boils, the steam rises and settles on the cone cover, where it is condensed by the cold water in the cover, and it is then collected in the funnel and runs down the long tube into a bottle or other receptacle.

(6588) A. J. McM. asks for some information regarding India rubber. A. India rubber is the product of many euphorbiaceous plants. We get most of it from the Brazils and Central America. In Brazil it is obtained from the Siphonia elastica, which grows to a height of between 50 to 60 feet, and in Central America it is obtained from Castilloa elastica. Most of that we now use comes from Central America, where the juice is simply collected in cups, from incisions made in the bark. To coagulate the milky juice and convert it into rubber fit for exportation, the juice of a vine called achuen is mixed with it, and so powerful is its action that five or six minutes is sufficient to produce coagulation. The Brazilian method slightly differs. The juice is first collected in clay bowls; it is then smeared over various shaped moulds, made also in clay and taking the form of bottles, balls, spindles, etc. Successive coats are laid on, each one having previously been allowed to thoroughly dry, either in the sun or the smoke of a fire, which blackens it. When a sufficient thickness is obtained the clay is washed out, leaving the India rubber ready for exportation. The trees yield twenty or thirty gallons of juice, and when we consider that each gallon will produce two pounds of market India rubber, the harvest is not so bad. Other trees producing caoutchouc are Siphonia brasiliensis, S. lutea, and S. brevifolia.

(6589) S. W. C. says: Can you give me some data for calculations relative to air? A. 1. To find the quantity of nitrogen by volume corresponding to 1 volume of oxygen, multiply by 3·770992. 2. To find the quantity of oxygen by volume corresponding to 1 volume of nitrogen, multiply by 0·265182. 3. To find the quantity of nitrogen by weight corresponding to 1 part by weight of oxygen, multiply by 3·313022. 4. To find the quantity of nitrogen, multiply by 0·301839. 5. To find the quantity of nitrogen, multiply by 0·301839. 5. To find the quantity of oxygen by volume corresponding to 1 part by weight of oxygen, multiply by 0·2730071. 7. To find the quantity of nitrogen, multiply by 0·2730071. 7. To find the quantity of nitrogen by weight corresponding to 1 part by volume of oxygen, multiply by 3·6629154. 8. To find the quantity of oxygen by weight corresponding to 1 part by volume of oxygen by weight corresponding to 1 part by volume of oxygen by weight corresponding to 1 part by volume of oxygen by weight corresponding to 1 part by volume of oxygen multiply by 3·6629154. 8. To find the quantity

(6590) C. T. V. asks: 1. Why is electrical apparatus protected from lightning by lightning arresters? A. To convey away the lightning so as to prevent injury to the apparatus and the operators. 2. How to find the horse power of steam engines. A. Multiply the area of the picton in inches by the pressure of steam per square inch, then multiply this product by the speed of the piston in feet per minute and divide by 33,000. This leaves friction out of the account. 3. How to determine the proper size of fuses for electric light wires A. As fuse wires made by different makers melt at different temperatures, an actual test of each kind of metal or alloy is required for the different diameters and lengths. Some use pure tin, others tin and lead. 4. Is it necessary for the neutral wire of a three-wire circuit to be equal to the capacity of the two outside wires combined? Why? A. No current goes by the neutralwire, unless there is a difference in the number of lamps on opposite sides thereof. In this case the neutral wire takes the difference in the current, and this only. For this reason this wire may be much smaller than the outside conductors.

TO INVENTORS.

An experience of nearly fifty years, and the preparation of more than one hundred thousand applications for patents at home and abroad, enable us to understand the laws and practice on both continents, and to possess unequaled facilities for procuring patents everywhere. A synopsis of the patent laws of the United States and all foreign countries may be had on application, and persons contemplating the securing of patents, either at home or abroad, are invited to write to this office for prices, which are low, in accordance with the times and our extensive facilities for conducting the business. Address MUNN & C.., office Scientific American, 361 Broadway, New York.

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| Fiedler 543,149 | A. Hagen | Secondary battery. E. Boettcher 543,372 | P |
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| Bowling alley, J. A. Rieper | Ha He He |
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| brake. Pressure brake. Brake shoe, W. W. Snow | He He Hi |
| Brush, W. C. Fint | H0 H0 H0 |
| Button, O. L. Mahon. 543,312 | Ho Ho Hy I ce |
| Cake or biscuit machine, P. D. Harton | Ind Jac Joi Joi |
| Can. See Key opening can. Lunch can. Oil can. Can labeling machine, D. Cox | Ka Ke Ke |
| | Kil Ku La La |
| Car arrester, P. Schuster | La La La La |
| Car curtain, street, J. Kilgour. 543,098 Car fender, S. Garlick. 543,239 Car fender, Goff & Joiner. 543,151 | La La |
| Car fender, O. Rothrock 543,405 Car, platform, A. G. Leonard 543,631 Car, railway, H. Pearson 543,660 | La La La |
| Car safety apphance, electric. W. B. Potter | Lii Lii Lii Lii |
| K. Bonta 945,455 Carbon holder, J. C. Knight 543,186 Carbon producing pure electric light, E. G. | Lii Lie Lo Lo |
| Carpet fabric, ingrain, B. H. Gledhill 543,208 Carriage washing apparatus, M. F. Gale 543,008 Carrying cosp. 7 1 Pages 543,197 | Lo Lo Lo |
| Centrifugal separator, C. J. Lundstrom | Lo La Ma Ma |
| Chain link, J. C. Schmidt | Me Me Me |
| Dooley (r). 11.504 Chenille fabric, woven, L. Binns 543,225 Chutes and hoppers for delivery of coal, ore, etc., cut-off device for, C. W. Hunt. 543,182 | Me Me Me Me |
| Cigarette machine, C. Ollagnier 543,189 Circuit for alternating current systems of distri- bution, testing, H. C. Wirt 543,364 | Me Me |
| Clock calendar, C. I. Fowler 543 235 to 543 237 | Mu Na Na No Nu |
| Clothes drier, B. F. Holmes. 543,299 Coffice surrogate, J. B. Drake 543,299 Coffin, D. B. Gould 543,152 | Nu Nu Nu Oa |
| Coffin, D. R. Gould. 543,152 Collar fastener, horse, A. Smith. 543,430 Combs, apparatus for cleaning edges of circular, 543,431 Greenwood & Farrar 543,381 Commode or sanitary pail, V. E. Poppens 543,442 | Oil ●il |
| Combs, apparatus for cleaning edges of circular, Greenwood & Farrar | ●i ●r Pa |
| Cork puller, E. Walker | Pa Pa Pa Pa |
| ling. Thill coupling. Cravat fastening, E. Schannen Crusher, See Stone crusher. Cultivator, J. Edwards. Cultivator, E. A. Grasshing. 523,379 Cultivator, E. A. Grasshing. | Pa Ph Ph |
| Cultivator, E.A. eyensbire. 643,451 Cultivator, hand wheel, R. G. H. Dillon. 543,451 Cultivator, straddle row band, J. J. & J. F. Dayet 543,178 | Pi Pi |
| Crusher. See Stone crusher. Cultivator, J. Edwards. 543,379 Cultivator, E.A. Ovensbire. 543,451 Cultivator, band wheel, R. G. H. Dillon. 543,378 Cultivator, straddle row band, J. J. & J. F. Davet 543,178 Cutter. See Band cutter. Casing cutter. Fodder cutter. Potato seed cutter. Rod and pipe cutter. Potato seed cutter. Rod and pipe cutter. Vegetable cutter. Cyclometer, A. D. Ruff. 543,269 | Pi Pi Pi Pl |
| Cyclometer, A. D., Ruff 543,269 Decomposing substances by means of ammonia salts, E. R. Besemfelder 543,284 Dies, See Screw thread cutting die. 543,316 Die, See Screw thread cutting die. 513,215 Dispensing case or cabinet, S. C. Guthrie 543,243 Display rack, F. Knopf 543,025 Ditching Jack, R. Rue 543,025 Ditching machine, A. Mann 543,257 Doffer mechanism, Buell & Moe 543,126 Drawing knife, A. Andren 543,144 | Pi Pi Pr Pr |
| Dish cleaner, B. R. Mann 543,215 Dispensing case or cabinet, S. C. Guthrie 543,423 Display rack, F. Knopf 543,025 Display rack, F. Knopf | Po Po Po |
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| Drying cylinder, G. R. Phillips. 543,051 | Pr Pr Pr |
| Drill brace, E. B. Petrie. 543.267 Drilling machine, A. Mill. 543.395 Drilling machinery, core, M. Beal. 543.212 Dust collector. A. Heine. 543.133 Dye, azo, R. Koreff. 543.212 Ear compress. M. L. Weber 543.212 Earth handling and grading apparatus, J. T. Montgomery et al. Electric brake. W. B. Potter 543.351 | Pi Pi Pi |
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| Montgomery et al. 543,408 Electric current distributer, Thomson & Rice, Jr. 543,351 Electric current distributer, Thomson & Rice, Jr. 543,351 Electric machine, dynamo, T. H. Hicks. 543,383 Electric machine, dynamo, T. Hooker. 543,033 Electric motor, alternating, J. A. G. Trudeau. 543,223 Electric switch, J. W. Hearn. 543,243 Electric switch, J. W. Hearn. 543,469 Electric transformer, J. A. Mosber. 543,469 Electrodepositing device, J. Bossard. 542,868 Elevator controller, L. S. Graves. 543,010 Elevator controller, F. B. Graves. 543,010 Elevator safety device, W. P. Kidder. 543,153 Elevator safety stop, J. Taylor. 543,359 Elevator safety stop, J. Taylor. 543,359 | R |
| Electric switch, J. W. Hearn. 145, 147. Electric transformer, J. A. Mosber. 543, 349. Electrical switch, H. Stuebner. 543, 409. Electrod epositing device, J. Bossard. 542, 386 | R |
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| Engine, F. C. Rinsche Engine igniting apparatus, gas, G. W. Waltenbaugh. 543,165 | R |
| Envelope, J. Bacher. 543,120 Explosive engine, M. L. Mery 543,157 Explosive engine, C. W. Weiss, 543,163, 543,165 Extension table, R. H. Ripking 543,053 Eyediasses, A. S. Weaver 543,363 | R R R |
| Everence machines, power attachment for foot | RRRR |
| power, G. • Goddard 543,339 Fan, H. D. Jones 543,252 Fan, automatic, L. Recht 543,240 Fence, E. M. Shaeffer 543,221 Fence bar, sliding, J. Creech 543,221 Fence bar, sliding, J. Creech 543,228 Fence making mactine, Briney & Geron 542,388 Fence post, Newman & James 543,398 Ferric sulphate, making, S. H. Emmens 543,098 Fire alarm box, C. A. Roffe 543,003 Fire alarm box, T. T. Stack 543,003 Fire extinguisher, Hughes & Smith 543,003 Fire extinguisher, Hughes & Smith 543,240 Firearm folding stock, A. J. Murray 543,138 Fireproof construction of ficors and cellings, A G. Cummings 543,003 Firearm folding stock, A. J. Murray 543,138 Fireproof construction of ficors and cellings, A G. Cummings 543,003 | Sa Sa |
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| Glass annealing furnace, George & Shortle. 543,207 Glass press, C. Kuhlewind. 543,154 Glove fastening, Thompson & Zuver. 543,432 Glycocol derivative, aromatic, W. Majert. 543,432 Glycocol derivative, aromatic, W. Majert. 543,214 | |
| Grader, road, B. Poulson 543,191 Grain drill, C. E. Patric 543 (49) Grate sheking and dismiting C. P. Soner 543 (99) | 55 |
| Grinding machine, cutlery, A. F. Bannister 543,076 | |
| down, Young & Barton | 000000 |

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| | Hat fastener, H. L. Carpenter | . 54 3, 1 70 ⁽ | Ste Ste |
| | Heater, Michaelson & Reid | 543,039 543,349 | Stit |
| | Hemming gage, A. S. Simons. Hinge banger, A. Schroeder. Hoe, shuffle, H. A. Parcells. Hook. See Fish hook. Portable hook. Horse sheeking or unchecking devic; F. H. Kit- | 543,195 543,105 543,266 | Sto Sto |
| | Hook. See Fish hook. Portable hook. Horse checking or unchecking devices F. H. Kit- trell | 543,307 | Sto |
| į | trell Horse creeper shoe, P. W. Weida Horse power, J. S. Tuttle Hydrocarbon burner, J.H. Mathews Ice machine, can filler R. F. Schroeder. | 543,415 543,066 | Sto Sto |
| | Hydrocarbon burner, J. H. Mathews Ice machine. can filler R. F. Schroeder Indicator. See Cash indicator | 543,037 543, 1 59 | Swi Tat |
| | Jack. See Ditching jack. Lifting jack. | 5 40 TOP | Tac Tar |
| | Journal and bearing therefor I. Metzger. Kaolin, etc., refining. B. H. Chambers Key opening can, C. B. McDonald. Key seat cutting machine, L. & D. Lake. Kiln. See Lime kilin. | 543,187 543,292 543,347 | Tar Tar |
| | Key seat cutting machine, L. & D. Lake Kiln. See Lime kiln. | 543309 | Tel Tel |
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| | Lamp, electric arc, W. Jandus. | 543,243 543,445 | Tel Tel Tel |
| | Lamp, J. Forsythe Lamp, arrnage, S. Cooper Lamp, electric arc, B. Higham Lamp, electric arc, W. Jandus. Lamp, electric arc, R. J. Sage Lamp, incandescent electric, G. Westinghouse, Jr. | 543,355 | Tni |
| | Jr. Lamp socket, incandescent, E. H. Heath Lanterns or stereopticons, attachment for magic, | 543,016 | Tin Tir Tir |
| | | | Tir Tir Tir |
| | Laryngoscope, pocket, J. Boekel Last, E. M. Cole Litter. See Stone lifter. Lifting apparatus brake. A. Bolzani. | 543,375 543,287 | Tir Tir Tir |
| i | Lifting apparatus brike, A. Bolzani. Lifting Jack. Sherwood & Lake. Lime kiln, R. & H. Vanderboof. Lime, treating, H. H. Pierce. | 543,407 543,433 543,452 | Tir Tir |
| į | Liquid tank, self-measuring, C. M. Bridges | 545,169 | To: T o: T o: |
| ! | Lock, D. A. Root. Lock bolts, safety device for, C. F. Roberts. Locking device, detonating, T. C. Smith Locomotive signal light, J. R. Roberts. Loom tuft yarn carrier, J. A. Clark Lanch can, W. E. Howell Magazine camera, D. B. Craw Mattress reinforcement, W. H. Moore. | 543,404 543,142 543,062 | Tra Tra |
| İ | Locomotive signal light, J. R. Roberts Loom tuft yarn carrier, J. A. Clark | 543,354 543,080 | Tra |
| ! | Lanch can, W. E. Howell Magazine camera, D. B. Craw Mattress reinforcement, W. H. Moore. Measuring device, cloth, M. Ackerland Measuring device, garment, H. Kantorovitz. Mechanical movement. J. E. S. Medsger. Mechanical movement. J. E. S. Medsger. Medical apparatus, electro, J. R. Etter. Metal strips, tool for binding, P. C. Forrester. Metal, treating molten, E. A. Uehling. Metals finishing, D. J. Hurley. Meter for alternating electric currents, L. Gutmann. | 543,095 543,044 | Tro |
| | Measuring device, cloth, M. Ackerland | 543,203 . 543,253 | Tro |
| | Mechanical power, C. R. Matthews. Medical apparatus, electro, J. R. Etter. | 543,392 543,083 | Tri |
| | Metal strips, tool for binding, P. C. Forrester Metal, treating molten, E. A. Uebling | 543,234 543,115 543,303 | Tu |
| Į | Meter for alternating electric currents, L. Gut- mann. | . 543,089 | Ту Ту |
| ĺ | mann. Motor. See Bicycle motor. Electric motor. Wave motor. Wave motor. | 543 286 | Tu Ty Ty Ty Ty Uu |
| | Music box!damping device, Bock & Wacker Nail machine, R. Johnson Name plate for tombstones, etc., H. K. Cotton Nozzle regulator, A. Chavanne | | Up |
| | Name pate in tollusiones, etc. I. E. Cottol. Nozzle regulator, A. Chavanne Nut lock, J. C. Crum Nut lock, J. Lachance. Nut, sectional, J. E. Boegen. Oar lock, J. Peterson. Oil can and lamp filler, J. P. Rogers. | 543,176 543,027 | Va Va Va |
| | Nut, sectional, J. E. Boegen. Oil on and lamp filer, J. P. Boggers. | 543,205 543,314 | Va Va Va |
| | oil press, J. Koch oils or fats, purifying. F. Burton. oiler for screw cutting dies, automatic, A. Elmendorf | 543,343 543,079 | ٧e |
| ; | Other for screw cutting dies, automatic, A. Elmendorf ore concentrator, W. H. Moore Packing for stuffing boxes metallic, H. Friese | 543,001 | Ve Ve Ve |
| | Packing for stuffing boxes, metallic, H. Friese Paddlewbeel, D. S. Dark | 543,300 542,932 | V e |
| | Pail, dinner, C. E. Bertels. Paint compound, P. Kwarneberg. Panoramic camera, H. G. Wood. | 543,327 543,308 543,281 | Vo W: |
| | Paper roll for sales pads, W. H. Breakspear et al Photographic cardboard, apparatus for applying | 543,330 | Wa |
| | Piano action, J. Bluthner Pianos, repeating action for grand, J. Bluthner | . 543,371 . 543,370 | W |
| | dorf ore concentrator, W. H. Moore Packing for stuffing boxes, metallic, H. Friese Paddlewheel, D. S. Dark Pail, dinner, C. E. Bertels. Paint compound, P. Kwarneberg. Panoramic camera, H. G. Wood Paper roll for sales pads, W. H. Breakspear et al Photographic cardboard, apparatus for applying sheets to, S. H. Stinson Piano action, J. Bluthner Pia nos, repeating action for grand, J. Bluthner. Pile supporter, G. C. Ormerod Pin sbield, E. Case Pipe bleeder, steam, C. C. Howell. | 543,400 543,171 | Wa Wa Wa Wa Wa |
| | Pipe wrench, J. C. burgess. Planter, potato, M. J. Smith. | 543,331 543,107 | W |
| | Plow. Walker & Beatty Plow, rotary, E. C. Atkins Plow rotary Atkins & Roberts | 543,276 543,119 543,118 | W |
| 1 | Pile supporter, G. C. Ormerod Pin sbield, E. Case Pipe bleeder, steam, C. C. Howell. Pipe wrench, J. C. Burgess Planter, potato, M. J. Smith Plow, Walker & Beatty Plow, rotary, E. C. Atkins Plow, rotary, Atkins & Roberts. Pneumatic transfer tube system, F. W. Jones. Portable book, H. H. Bates. Post. See Fence post. | . 543,184 . 543,121 | W |
| İ | Potassium chiorate producing K J Bayer | 543 326 | W |
| : | Potato seed cutter and dropper, I. A. Bordner Potato sorting machine. E. A. Smith. Power. See Horse power. Mechanical power. Press. See Baling press. Glass press. • Il press | | W |
| | _ Frincing press | 543,102 | |
| | of plates for color, J. Michaud | 1 . 543,040 . 543,036 | W |
| | Printing press attachment, P. Schneider Propelling vessels, means for, B. A. Davis. Protected by a sledy-dependent of the property of the prop | . 543,058 . 543,179 | Ya Zii |
| | Protocatecourc aidebyde-meta-alkyl ethers, pro- duction of, A, Schmidt. Puller. See Cork puller. Pump, E. B. Frizell. Pump, H. Medell. | . 543,193 | ı |
| | Pump, H. Mehl | 543,338 543,394 543,245 | |
| | Pump, H. Mehl Pump, revolving air, V. A. Hlasko Puzzle, H. E. Nelson Pyroxylin compound, J. H. Stevens. | 543,394 543,245 543,188 543,197 | Bo Bo |
| | Pyroxylin, manufacture of solid or massive com- pounds of, J. H. Stevens | . 543,10 8 | Gr La Pe |
| | pounds of, J. H. Stevens. Rack. See Display rack. Radiator shield and frame, G. E. Dixon. Railway gate, automatic, W. L. Vernon. | . 543,456 . 543,414 . 543,322 . 543,156 | Sig |
| | Railway signal, J. B. Stewart Railway switch, automatic, E. A. Loomis. Railway system, electric, J. C. Henry Register. See Autographic register. Registering elem J. Millor. | . 543.156 | Sq To |
| | negister. See Autographic register. | . 543,382 | |
|) | Registering alarm, J. Miller | . 543,382 | |
| | Registering apparatus, electric, A. Custodis Registering machine, L. E. Allen Regulator. See Furnace regulator. Gas pressure | . 543,382 . 543,449 . 543,336 . 543,417 | : B a |
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| 378 | Registering apparatus, electric, A. Custodis Registering machine, E. Allen. Registering machine, E. Allen. Regulator. See Furnace regulator. Gas pressure regulator. Nozzle regulator. Water regulator. Reim holder, E. Cavanaugh Rendering apparatus, H. Pfutzner. Revolving chair, C. C. Trapp. Revolving chair, C. C. Trapp. Revolving chair, C. C. Trapp. Revolving machine, S. M. Vauclain. Revolving machine, C. W. Obapmane. Revolving machine, C. W. Obapmane. Router machine, C. W. Obapmane. Router machine, C. W. Obapmane. Router machine, G. W. Jones. Rug fastener, R. D. Harris. Safety switch, G. Resser. Sales pad, W. H. Breakspear et al. Sanding machine. Linn & Lytle. Sash fastener, I. L. Atwood. Sash fastener, I. L. M. Dinning. Sash fastener, W. F. Stimpson. Scraper operating apparatus, H. G. Butler. Sereed. See Window screen. Screwdriver, J. W. Jones. Screw thread cutting die, N. E. Martin. Seroll former, P. C. Forrester. Seed delinting machine, cotton, G. W. Washbur Separator. See Centrifugal separater. Sewing machine feeding mechanism. J. Vannett Sewing machine feeding mechanism. J. Vannett Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machi | 543,492 543,417 543,384 543,384 543,381 543,381 543,381 543,381 543,381 543,281 543,281 543,283 543,180 543,180 543,180 543,281 543,281 543,281 543,281 543,281 543,281 543,382 643,281 543,281 543,382 643,282 643,282 643,282 643,282 643,282 643,282 643,282 643,282 643,282 643,282 643,283 643,382 643,382 643,382 643,382 643,383 643 | Bee Bee Bee Bee Bee Bee Bee Bee Bee Bee |
| 378 | Registering apparatus, electric, A. Custodis Registering machine, E. Allen. Registering machine, E. Allen. Regulator. See Furnace regulator. Gas pressure regulator. Nozzle regulator. Water regulator. Reim holder, E. Cavanaugh Rendering apparatus, H. Pfutzner. Revolving chair, C. C. Trapp. Revolving chair, C. C. Trapp. Revolving chair, C. C. Trapp. Revolving machine, S. M. Vauclain. Revolving machine, C. W. Obapmane. Revolving machine, C. W. Obapmane. Router machine, C. W. Obapmane. Router machine, C. W. Obapmane. Router machine, G. W. Jones. Rug fastener, R. D. Harris. Safety switch, G. Resser. Sales pad, W. H. Breakspear et al. Sanding machine. Linn & Lytle. Sash fastener, I. L. Atwood. Sash fastener, I. L. M. Dinning. Sash fastener, W. F. Stimpson. Scraper operating apparatus, H. G. Butler. Sereed. See Window screen. Screwdriver, J. W. Jones. Screw thread cutting die, N. E. Martin. Seroll former, P. C. Forrester. Seed delinting machine, cotton, G. W. Washbur Separator. See Centrifugal separater. Sewing machine feeding mechanism. J. Vannett Sewing machine feeding mechanism. J. Vannett Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machi | 543,492 543,417 543,384 543,384 543,381 543,381 543,381 543,381 543,381 543,281 543,281 543,283 543,180 543,180 543,180 543,281 543,281 543,281 543,281 543,281 543,281 543,382 643,281 543,281 543,382 643,282 643,282 643,282 643,282 643,282 643,282 643,282 643,282 643,282 643,282 643,283 643,382 643,382 643,382 643,382 643,383 643 | Bee Bee Bee Bee Bee Bee Bee Bee Bee Bee |
| 3 7 1 0 2 | Registering apparatus, electric, A. Custodis Registering machine, E. Allen. Registering machine, E. Allen. Regulator. See Furnace regulator. Gas pressure regulator. Nozzle regulator. Water regulator. Reim holder, E. Cavanaugh Rendering apparatus, H. Pfutzner. Revolving chair, C. C. Trapp. Revolving chair, C. C. Trapp. Revolving chair, C. C. Trapp. Revolving machine, S. M. Vauclain. Revolving machine, C. W. Obapmane. Revolving machine, C. W. Obapmane. Router machine, C. W. Obapmane. Router machine, C. W. Obapmane. Router machine, G. W. Jones. Rug fastener, R. D. Harris. Safety switch, G. Resser. Sales pad, W. H. Breakspear et al. Sanding machine. Linn & Lytle. Sash fastener, I. L. Atwood. Sash fastener, I. L. M. Dinning. Sash fastener, W. F. Stimpson. Scraper operating apparatus, H. G. Butler. Sereed. See Window screen. Screwdriver, J. W. Jones. Screw thread cutting die, N. E. Martin. Seroll former, P. C. Forrester. Seed delinting machine, cotton, G. W. Washbur Separator. See Centrifugal separater. Sewing machine feeding mechanism. J. Vannett Sewing machine feeding mechanism. J. Vannett Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machine, overedge, E. & R. Cornely. Sewing machi | 543,492 543,417 543,384 543,384 543,381 543,381 543,381 543,381 543,381 543,281 543,281 543,283 543,180 543,180 543,180 543,281 543,281 543,281 543,281 543,281 543,281 543,382 643,281 543,281 543,382 643,282 643,282 643,282 643,282 643,282 643,282 643,282 643,282 643,282 643,282 643,283 643,382 643,382 643,382 643,382 643,383 643 | Bee Ber Bri Ble Ber Bri Ble Ber Bri Ble Bri Bri Bri Bri Bri Bri Bri Bri Bri Bri |
| 18378 67402461 | Registering apparatus, electric, A. Custodis Registering machine, L. E. Allen. Regulator. See Furnace regulator. Gas pressure regulator. Nozzle regulator. Water regulator. Regulator. Nozzle regulator. Water regulator. Reinholder, E. Cavanaugh. Rendering and drying apparatus, E. Holthaus. Rendering and drying apparatus, E. Holthaus. Rendering apparatus, H. Pfutzner. Revolving chair, C. C. Trapp. Riveting machine, S. M. Vauclain. Riveting machine, S. M. Vauclain. Rod and pipe cutter, W. Barheine. Rod or pipe coupling, S. M. Jones. Routing machine, G. W. Symonds. Rug fastener, G. H. D. Harris. Safe, G. B. Cavert. Safety switch, G. Besser. Safety switch, G. Besser. Sales pad, W. H. Breakspear et al. Sanding machine, R. Bauer. Sash fastener, H. M. Dinning. Sash fastener, H. M. Dinning. Sash fastener, H. M. Dinning. Sash fastener, H. W. Stimpson. Scraper operating apparatus, H. G. Butler. Serew thread cutting die, N. E. Martin. Serew thread cutting die, N. E. Martin. Seroll former, P. C. Forrester. Seed delinting machine, cotton, G. W. Washbur. Separator. See Centrifugal separator. Sewing machine groove cutting attachment, A. G. Taylor. Sewing machine stop mechanism. J. Vannet. Swang apparatus, F. W. Naumann. Shaft trace connection, vebicle, J. H. Wiseheart Shaft trace connection, vebicle, J. H. Wiseheart Shaft, universal drill, M. S. P. Dabl. Sbafts, sinking, J. A. Dubbs. Shast trace connection, vebicle, J. H. Wiseheart Shaft, universal drill, M. S. P. Dabl. Sbafts, sinking, J. A. Dubbs. Shaft trace connection, vebicle, J. H. Wiseheart Shaft, universal drill, M. S. P. Dabl. Shaft trace connection, vebicle, J. H. Wiseheart Shaft, universal drill, M. S. P. Dabl. Shafts, sinking, J. A. Dubbs. Shaft trace connection, vebicle, J. H. Wiseheart Shaft, universal drill, M. S. P. Mabl. Shafts, saku, J. A. Vunderhei. Shears joint. A. J. Krank. Shoes, manufacturing cork sole, E. M. Cole Shutter fastener, W. H. Marshall. Shoes manufacturing cork sole, E. M. Cole Shutter fastener, A. Hulman. Sick & djuster, A. Chubb, Jr. Siack | 543,439 543,439 543,439 543,437 543,384 543,350 543,330 543,331 543,335 543,332 543,334 543,334 543,334 543,342 543,334 543,348 | Bee Bee Bee Bee Bee Bee Bee Bee Bee Bee |
| 13378 5710216192 | Registering apparatus, electric, A. Custodis Registering machine, L. E. Allen. Regulator. See Furnace regulator. Gas pressure regulator. Nozzle regulator. Water regulator. Reine See Regulator. Nozzle regulator. Water regulator. Reine See Reine | 543,439 543,439 543,437 543,437 543,384 543,381 543,381 543,381 543,381 543,232 543,393 543,393 543,393 543,393 543,393 543,393 543,393 543,393 543,313 543,334 543,334 543,334 543,334 543,334 543,334 543,334 543,334 543,334 543,334 543,334 543,343 543,344 543,344 543,344 543,344 543,344 543,344 | Bee Bee Bee Bee Bee Bee Bee Bee Bee Bee |
| 18378 674024619 | Registering apparatus, electric, A. Custodis Registering machine, L. E. Allen. Regulator. See Furnace regulator. Gas pressure regulator. Nozzle regulator. Water regulator. Regulator. Nozzle regulator. Water regulator. Remodering and drying apparatus, E. Holthaus. Rendering and drying apparatus, E. Holthaus. Rendering and drying apparatus, E. Holthaus. Rendering apparatus, H. Pfutzner. Revolving chair, C. C. Trapp. Riveting machine, S. M. Vauclain. Riveting machine, S. M. Vauclain. Rod and pipe cutter, W. Barheine. Rod or pipe coupling, S. M. Jones. Routing machine, G. W. Symonds. Rug fastener, G. H. D. Harris. Safe, G. B. Cavert. Safety switch, G. Besser. Safety switch, G. Besser. Safety switch, G. Besser. Sash fastener, H. M. Dluning. Sash fastener, H. M. Dluning. Sash fastener, H. M. Dluning. Sash fastener, H. W. Stimpson. Scaper operating apparatus, H. G. Butler. Serewdriver, J. W. Jones. Screw thread cutting die, N. E. Martin. Seroll former, P. C. Forrester. Seed delinting machine, cotton, G. W. Washbur Separator. See Centrifugal separator. Sewing machine groove cutting attachment, A. G. Taylor. Sewing machine stop mechanism. J. Vannet Sewing machine sponechanism. J. Vannet Scopf, T. Safety, J. A. Dubbs. Shaft trace connection, vebicle, J. H. Wisebeart Shaft, universal drill, M. S. P. Dabl. Sbafts, sinking, J. A. Dubbs. Shaving apparatus, F. W. Naumann. Shears, J. A. Vernet. Shears joint. A. J. Krank. Shoes, manufacturing cork sole, E. M. Cole. Shutter fastener, A. Hulman. Siften, asb, J. H. Hayner. Sifting pulverized clay, machine for, F. S. Slattery. Signal. See Railway signal. Slack adjuster, A. Chubb, Jr. Slack adjuster, A. Chubb, Jr. Slack see Velving machine, E. C. Judd. Sole rounding machine, Kallusch & Juruick. Sprigs. See Velvicle spring. | 543,430 543,384 543,384 543,384 543,381 543,381 543,381 543,381 543,381 543,293 543,381 543,293 543,183 543,294 543,294 543,383 543,383 543,383 543,384 543,482 543,384 543,481 543,294 543,381 543,481 543,481 543,481 543,481 543,481 543,481 543,481 543,481 543,481 | Bee Bee Bee Bee Bee Bee Bee Bee Bee Bee |

| Steam joint, water lubricated, J. B. Morgan 543,042 Steel bar, combination, J. S. Brooks 542,989 Stitch separating and indenting machine, J. B. 542,089 |
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| Stitch separating and indenting machine, J. B. Hada way 543,012 |
| Stone crusher, G. N. Miller |
| Stove, Carroll & Brooks 543,291 Stove, W. J. Keep 543,305 Stove, heating, W. W. Towne 543,360 |
| Stitch separating and indenting machine, J. B. Hadaway 543,012 Stock loader, W. J. Mead 543,395 Stone crusher, G. N. Miller 543,041 Stone hifter, Henderson & McConaughy 543,041 Stove, Carroll & Broeks 543,291 Stove, W. J. Keep 543,360 Stove heating, W. W. Towne 543,360 Stove heating, W. W. Towne 543,360 Stove or range, cooking, H. F. W. Sievers 543,249 Sugar by electrolysis, refining, Javaux & Gallois, 543,248 Switch, See Electric switch, Electrical switch, Railway switch, Safety switch, Table, See Extension table. Tack driving machine, hand magazine, J. Hyslop, 543,135 Tank, See Flushing tank, Liquidtank, Water closet tank. |
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| Tire valve, pneumatic J. E. Davis. 543,297 Tire, venicle, T. B. Blosser. 543,434 |
| Tire, wheel, L. J. Phelps |
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| Trace fastener, S. Cole. 543,437 Traction wheel, G. A. Anderson. 543,075 Transportation system electric R. E. Sharman 543,357 |
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| Trolley system, underground, Ginochio & |
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| voting machine, electrically controlled, C. A. Stitzer. 513,065 Wagon, dumping, N. Bate. 543,167 Wagon storm door, D Fuller. 543,007 Watch, alarm, J. W. Nuramaker. 543,048 Watch cannon pinion. J. S. & A. J. Baker. 543,325 Watch case, W. M. Rush, Jr. Watch, stem winding and setting, J. G. Biessing 542,848 Water bag, W. H. Daly. 543,317 |
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| Window, L. N. Fowler |
| Window screen, adjustable, F.C. Miller 543,240 Wire stretcher, W. C. Cardwell 543,290 Wire working tool, J. • Mitchell 543,100 |
| I. Brown |
| Woodworking machines, antivibrating attachment for, A. Prero |
| Zinc, process of and apparatus for extraction of, L. V. J. Lynen |
| DESIGNS. |
| Bottle, A. Dryfoos |
| Grate, C. T. Coe 24 04 Lamp, Keeier & Hamm 24,496 to 21,499 Pendant (3 Hilpert 24 .94 |
| Bottle, A. Dryfoos |
| Toy money bank, C. A. Bailey 24,501 |
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| Baking powder, Southern Manufacturing Company |
| Beer, lager, Firm of G. Pseborr 26,853 Bicycles and accessories thereto, Zimmerman |
| Bitters, magen, S. B. Rothenberg 26,855 Blood purifier and remedy for rheumatism, W. G. |
| O'Donnell 26,859 Boots and shoes. Rice & Hutchins 26,842 Buttons, link cuff, J. A. Flomerfelt 26,846 |
| Cleaning and polishing purposes, infusorial earth for Colony & scool |
| Combs and other tortoise shell ornaments, Sinnock & Sherrill 26.845 Flour, wheat, Campbell Brothers. 26.865 |
| Gas burners and their accessories and parts, Welsbach Light Company 26,875 Hats, boys' and men's fur, Beltaire, Lurch & Company 26 841 |
| Company 26 841 |

| Baking powder, Southern Manufacturing Com- | |
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| nan v | 26,864 |
| Beer, lager. Estate of F. Oppermann, Jr. | 26.852 |
| Beer, lager, Firm of G. Pschorr | 26,853 |
| Bicycles and accessories thereto, Zimmerman | 00.000 |
| Manufacturing Company Bitters, magen, S. B. Rothenberg | 26,873 |
| Bitters, magen, S. B. Rothenberg | 26,855 |
| Blood purifier and remedy for rheumatism, W. G. | 26,859 |
| O'Donnell Boots and shoes. Rice & Hutchins | 26,839 |
| Buttons, link cuff, J. A. Flomerfelt | |
| Cement, imported, C. Zunz | 26,870 |
| Cleaning and polishing purposes, infusorial earth | 40,010 |
| for, Colony & Oscood | 26,868 |
| Combs and other tortoise shell ornaments, Sin- | ~0,000 |
| nock & Sherrill | 26,845 |
| nock & Sherrill Flour, wheat, Campbell Brothers. | 26,865 |
| Gas burners and their accessories and parts. Wels- | , |
| bach Light Company | 26,875 |
| Hats, boys' and men's fur. Beltaire, Lurch & | , |
| Company | 26 841 |
| Company Horse washing or cleaning preparation, L. B. | |
| Lord | 26.869 |
| Liniment, J. Barnes Medical compound, certain named, A. H. Wells | 26861 |
| Medical compound, certain named, A. H. Wells | 26.857 |
| Medical compounds, certain named. C. R. Ray Medicinal beverages, Apohaqui Alkaline Spring | 26,856 |
| Medicinal beverages, Apohaqui Alkaline Spring | 04.054 |
| Water Company Musical instruments, Barrows Music Company | 26,854 |
| Musical instruments, Barrows Music Company | 26,850 |
| Plaster, calcined, Kevstone Plaster Company | 26,871 |
| Remedy for anemia, chlorosis, megrim, and neu- | 26,860 |
| ralgia, Knoll & Company | 40,000 |
| Remedy for coughs, colds, and pulmonary on mplaints, Bartlett & Villinger | 26.858 |
| Salve, J. Hubbard | 26,862 |
| Salva W F A Navnahar | 26.863 |
| Scarf pins. E. E. Hickok Sho es, school, Hamilton, Brown Shoe Company, 26,643, | 26 847 |
| Shoes, school, Hamilton, Brown Shoe Company. | *** |
| 26.843. | 26844 |
| Silks, embroidery, J. Pearsall & Company | 26.839 |
| Skates Starr Manufacturing Company | 26,872 |
| Snuff, 'P. H. Garrett & Company | 26.851 |
| Snuff. T. H. Garrett & Company | , |
| terial, D. A. Kendall Squares and rules, mechanics', Eagle Square Manu- | 26,866 |
| Squares and rules, mechanics', Eagle Square Manu- | |
| facturing Company | 26.874 |
| facturing Company Umbrellas, cane sheatbs for, E. H. Hirsh | 26,849 |
| Washing powders, W. McGlaughlin | 26.867 |
| Watch cases and movements, Dueber Watch Case | 00.040 |
| Manufacturing Company | 26,848 |
| rarns of wood, worsted, or bair, J. Paton, Son & | 00 040 |
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