RECENTLY PATENTED INVENTIONS. Electrical Apparatus.

POTENTIAL-REGULATOR.—R. A. PHILIP, Seattle, Wash. In a constant-potential circuit for the distribution of electricity it is necessary to keep the average potential of the different mains as nearly constant as possible. The customary way of doing this is to select some particular point which is assumed to be a fair representative of the average condition of the circuit and from this point to run pilot-wires back to an indicating device at the station. In this invention, however, a group of pilot wires are used in such a way that instead of presenting the potential at some particular point the voltage indicated is proportionate to the average at several points of the system. This minimizes the liability of the general potential being injuriously affected by local disturbances.

TELEPHONE-CIRCUIT.—G. E. GOODHEAD. Winchester, Ill. The circuit is so arranged as to practically prevent a party at an intermediate station from hearing the conversation between parties at other instruments. By a simple arrangement the released receiver-hook automatically changes the circuit, cutting out the instrument on the line in a direction opposite to central and forming the circuit from the ground through the telephone box to the central.

COLLECTION-RECORDING MECHANISM. -G. F. DE GROOT and I. L. THOMPSON, Morristown, N. J. The device provides for recording at a post-office the collection of mail matter from the street boxes. The mechanism is electrically controlled and operates upon the opening of a letter-box to record on a strip of paper the number of the collector, the number of the box, and the date and hour of collection. Provision is made for locking and releasing the letter-box door at stated intervals.

Engineering Improvements.

SPARKING PLUG .- C. A. MEZGER, Brooklyn, N. Y. This sparkling plug is so arranged as to prevent sooty formations within the cylinder of an internal combustion engine from accumulating around the sparkling points in such manner as to sbort-circuit the igniter. The parts are so arranged that the current would have to make a long path through the soot in order to effect a short circuit, which, owing to the poor conducting qualities of the soot, would be practically impossible.

Machines and Mechanical Devices.

CIGARETTE-MACHINE.-J. C. HANSEN ELLEHAMMER, Istedgade 99, Copenhagen, Denmark. This invention affords a new device for filling the cigarette tubes in a cigarettemachine with tobacco. The filling is effected by screwing into the cylinder a thin, screwshaped wire, then by means of this wire introducing the tobacco-cylinder into the paper tube, and finally unscrewing said wire from the completed cigarette. The movement of the device is capable of such adjustment that the wire may be introduced even in finely cut tobacco without in any way damaging the tobacco-cylinder.

BURGLAR-ALARM FOR SAFES.—I. EMORY, Waverly, Ohio. Means are provided for automatically sounding an alarm when any unauthorized person approaches the safe with the object of surreptitiously opening the same. A protected passageway to the door of the safe is provided, also means for holding the devices inoperative during business hours, or when the alarm-actuating mechanism is to be set in condition for service.

XYLOPHONE-PLAYER.—F. R. GOOLMAN, Binghamton, N. Y. The purpose of the invention is to provide a mechanism for playing on xlyophones which may be relied upon to perform the functions for which it is intended. In order to play a xlyophone properly it is necessary to strike the bars of the instrument one stroke for short notes, and a succession of strokes for sustained notes. This mechanism is so constructed that such results will be invariably obtained when required.

TOOL-HOLDER .-- C. F. PRESTON, Chicago, Ill. This tool-holder is especially designed for Clinton, Mo. The invention is an improvement use in lathes, planers, and other metal-working in recoil pads for guns, and has for an object machines. It is arranged to adjustably hold a to simplify such constructions, to avoid any cutting tool with an even bearing on the top substantial length of the stock, and to proand bottom to prevent undue vibration and vide a novel arrangement of the filling tube render the tool as solid as an ordinary forgedsteel tool. The tool is held without the use of as to provide a cover for the pad. set screws or other objectionable projections.

Railway Contrivances.

PROCESS OF RECONSTRUCTING RAIL-ROAD-RAILS.—V. T. Lynch Chicago, Ill. an arm or bar for carrying a sign or other This invention enables the ordinary flanged indicating means for advertising or like purrail to be cheaply transformed into a grooved rail without taking it up from the tracks. The edge of the flange is first swaged or upset, and metal is then run into a mold which extends along the flange of the rail and into which the flange projects, so that when the mold is removed the rail is left with a second tread running alongside the ball of the rail and forming a groove therein.

Vehicles and Their Accessories.

Bradford, Pa. The invention provides an im- Please state the name of the patentee, title of

is adapted to greatly strengthen the body where the parts are secured together, and also dispenses with the use of screws and short plugs usually employed for the attachment of parts of the body, which frequently become loose or produce defacement of the finished exterior of the body.

WAGON-BODY .- J. W. FINCH, Leland, Miss. The invention relates to improvements in separable wagon bodies. The body consists of two parts which can be readily and with ease taken apart by one person, leaving the bottom resting on a running gear; thus adapting the vehicle to purposes where a box-like body could not be used to the same advantage.

DUMPING 'VEHICLE.-H. F. SHEPARD. Brooklyn, N. Y. Mr. Shepard has invented a dumping-wagon which is provided with an inclined bed-frame down which, when released, the body will slide by gravity to dumping position. A simple means is provided for releasing the tall-board from the body while dumping.

HORSE-HOPPLE.-M. KLEIN. Denver. Colo. This device, which is of simple construction, is designed to be carried by a horse and forms an effective means by which a horse may be instantly stopped or checked should he attempt to run away when used in harness or under saddle. The hopple may also be used as a hitching device so as to hitch a horse without the use of a hitching-post or weights.

Miscellaneous Inventions.

SLEEVE-HOLDER. — H. G. CARPENTER, Westbend, Iowa. The sleeve-holder is in the form of a spring-band or clasp for preventing sleeves of shirts, coats, or other light garments from slipping on the arm of the wearer. The edges of the band are provided with a series of notches which catch and hold the shirt more securely than would be practicable with a band having smooth edges.

COVER FOR TUMBLERS OR OTHER VES-SELS.—F. L. JOBSON, Richmond, Va. The object of this invention is to provide a simple and effective cover for cups, goblets, tumblers, etc., which will effectually cover the same, and prevent ingress of air, odors, dust, germs, insects, etc., and which at the same time serves the purpose of a spoon-holder.

ARMOR.-J. J. PINDAK, Chicago, Ill. Mr. Pindak has invented an improved armor for the sides of war vessels, turrets, and other devices to be protected against projectiles. The armor is of such construction as to be readily applied or removed and is so arranged as to break the force of the projectile and distribute the impact over a large area.

STIRRUP .- W. H. AUGHEY and W. CLIFTON, Billings, Mont. The stirrup permits a quick and convenient change adjustment whereby it may be raised or lowered to suit different riders and also be readily adjusted to throw the weight imposed upon it either upon the ankles of the rider or away from them.

BASKET HANDL'E .- M. TUCKER, Brocton, N. Y. The invention relates to a handle for baskets, particularly those used for grapes and like food, which not only serves as a means for carrying the basket, but also as a clamp for holding the top in place.

NON-REFILLABLE BOTTLE.-J. ZANGEL. Battlecreek, Mich. The neck of the bottle is provided with a casing having a valve. spring normally holds the valve closed, and a weighted ball having flexible connection with the valve is employed to open the same on tilting the bottle.

RUBBER BOOT OR SHOE.-J. L. PERRY, Auburn, R. I. The heel portion is strengthened or re-enforced to such an extent as to prevent the bending down, and doubling up, and the consequent breaking of the heel back, as so frequently happens with rubber boots and shoes now made.

TOY OR GAME APPARATUS.—C. H. Bux-TON, Neenah, Wis. The device not only affords amusement but also provides practice in digital dexterity. It involves two round rods, hinged together and so arranged that upon certain manipulation the ball may be caused to roll up the rods when inclined.

RECOIL PAD FOR GUNS .- J. R. WINTERS. by which the pneumatic pad is filled, as well

DISPLAY DEVICE.-J. K. ONEY, Huntington, W. Va. Mr. Oney affords an improvement in display devices, being in the nature of a simple construction which can be readily applied to a window or door frame to support

TOBACCO-PIPE .- A. K. BOWMAN, Pittsburg, Pa. The pipe is provided with a woven tube through which the smoke passes and which will divide up the smoke into fine particles to collect from it the suspended poisonous substances; this will also cool the smoke. Any liquid that accumulates in the stem or mouthpiece will be absorbed by pads provided for that purpose.

Note.-Copies of any of these patents will be VEHICLE-BODY.-J. E. and C. B. Brown, furnished by Munn & Co. for ten cents each. proved construction for a vehicle-body which the invention, and date of this paper.

Business and Personal Wants. INDEX OF INVENTIONS

READ THIS COLUMN CAREFULLY,—You will ind 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. 2708.—For manufacturers of motors from 1/4 to 1/4 horse power.

"U. 8." Metal Polish. Indianapolis. Samples free. Inquiry No. 2709.—For small refrigerating ma-hines for household use.

WATER WHEELS. Alcott & Co., Mt. Holly, N. J. Inquiry No. 2710.—For dealers in stamped or ressed wooden mouldings.

For bridge erecting engines. J. S. Mundy, Newark, N. J. Inquiry No. 2711.—For colleges in which forestry is taught by correspondence. Sawmill machinery and outfits manufactured by the

Lane Mfg. Co., Box 13, Montpelier, Vt. Inquiry No. 2712.—For dealers in cold rolled

We design and build special and automatic machinery for all purposes. The Amstutz-Osborn Company, Cleve

land, Obio. Inquiry No. 2713.—For dealers in band steel and who are engaged in tempering small light springs.

Inventions developed and perfected. Designing and machine work. Garvin Machine Co., 149 Varick, cor. Spring Sts., N. Y.

Inquiry No. 2714.—For makers of power cider mills.

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

Inquiry No. 2715.—For machinery for grading cond-beds for steam railway construction.

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. 2716.—For manufacturers of aluminium trade checks IDEAS DEVELOPED.—Designing, draughting machine work for inventors and others. Charles E. Hadley, 584

Hudson Street, New York-Inquiry No. 2717.—For stamping machines for loor plates, marks, etc.

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

Inquiry No. 271%.—For manufacturers of hammer break sparkers for gasoline engines.

The best book for electricians and beginners in electricity is "Experimental Science," by Geo. M. Hopkins. By mail, 4. Munn & Co., publishers. 361 Broadway, N.Y. Inquiry No. 2719.—For dealers in rubber tires for baby carriages.

PATENT FOR SALE .- Setting instrument patented March 18, 1902. Every machinist needs one. Used for different purposes. Send for circular. Morris Chamber lain, Bartley, N. J.

Inquiry No. 2720.—For manufacturers or dealers in indurated fiber goods.

Send for new and complete catalogue of Scientific New York. Free on application.

Inquiry No. 2721.—For dealers in lanterns with round globes, burning acetylene gas. Inquiry No. 2722.—For dealers in electric fans run by a wet battery.

Inquiry No. 2723.—For the present address of the Ronney Stoker Co.

Inquiry No. 2724.—For dealers in up-to-date fire extinguishers, hand grenades, etc.

Inquiry No. 2725.—For makers of hardware suitable for the manufacture of screen doors and windows. Inquiry No. 2726. -For a narrow-gage locomotive driven by petrolenm or gasoline for use on a wooden wharf 42 inches wide.

Inquiry No. 2727.—For dealers in general theatrical goods and supplies for such as "make-up," costumes, etc. Inquiry No. 2728.—For manufacturers of small

Inquiry No. 2729.—For manufacturers of spring motors.

Inquiry No. 2730.—For hand or treadle power signature-making machines.

Inquiry No. 2731.—For dealers in novelties.

Inquiry No. 2732.—For addresses of philatelical paper, published in United States, Canada and South America.

Inquiry No. 2733.—For makers of solid rubber bicycle tires. Inquiry No. 2734.—For manufacturers of invalid chairs, etc.

Inquiry No. 2735.—For manufacturers of celluloid and xylonite suitable for knife handles, etc. Inquiry No. 2736 .- For dealers in rolled gold

Inquiry No. 2737.—For manufacturers of steam riding galleries.

Inquiry No. 2738.—For machinery for making brackets and pins for telephone lines.

Inquiry No. 2739.—For the firms who make the felt covering for the United States government canteens.

Inquiry No. 2740.—For manufacturers of plates of aluminium. Inquiry No. 2741.—For machinery for making horn combs.

Inquiry No. 2742.—For dealers in granula: ed copper or machinery for making the same.

Inquiry No. 2743.—For a cheap ice-making machine for household use. Inquiry No. 2744. For manufacturers of acety-lene gas generators.

Inquiry No. 2745.-For manufacturers of ear tubes, etc.

Inquiry No. 2746.—For makers of solid, rustproof harness metals, dashboards, etc.

Inquiry No. 2747.—For makers of hollow copper or brass wire

Inquiry No. 2748.—For machinery for copying the flat surface of a clarinet mouthpiece.

Inquiry No. 2749.—For makers of paper rims or tires for placing over iron wheels.

Inquiry No. 2750.—For makers of electric motors.

Inquiry No. 2751.—For manufacturers of portable lamps burning kerosene. Inquiry No. 2752.—For makers of broom machin-

Inquiry No. 2753.—For manufacturers of marine pipe boilers for igunches.

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

June 3, 1902,

AND EACH BEARING THAT DATE.

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

Acids, making alkyl ethers of cinchona alka- lolid carbonic, H. Through and lolid carbonic, H. Through and lolid carbonic, H. Through and the parks apparatus, W. L. Corner, 10,1628 Alt Ponke system, continuous automatic, 10,1628 Alt Ponke system, continuous automatic, 10,1628 Alt molistening apparatus, Q. N. Evans. 701,563 Alt ship, O. R. Alter and molistening smo, tree 701,563 Alt ship, O. R. Sackott. 20, 10,163 Alt ship, O. R. Sackott. 20, 10,163 Alterian See Burglar alarm. Electric alarm. Analysism apparatus, G. F. Jernigan, 701,346 Applicator, A. Cory. 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	Add - add a black of dark or all
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Boller cleaning compound, J. A. Robinson. 701,508 Boller repair plug, C. Engelhardt. 701,608 Boller seam or joint, steam, S. M. Vauclain 701,777 Bolier water gage, E. F. Shallow. 701,518 Boring apparatus, rotary, W. Pruskowski. 701,331 Bottle washer, H. S. Brewington. 701,235 Box and fastener, O. O. Clayton. 701,237 Box and fastener, O. O. Clayton. 701,237 Box and fastener, O. O. Clayton. 701,238 Bricks, producing silicia, Gibson & Wessling. 701,708 Bricks, producing silicia, Gibson & Wessling. 701,708 Bricks, producing same, E. S. Meade. 701,365 Broom, E. Robertson. 701,395 Broom, brush, G. W. Richardson. 701,395 Broom, brush, G. W. Richardson. 701,305 Broom, brush, G. W. Richardson. 701,507 Brush, fountain, Schwartz & Silberman. 701,402 Bucklet dumping apparatus, automatic, T. N. Jones. 701,507 Brusk, fountain, Schwartz & Silberman. 701,402 Bucklet suspander, W. T. Dugger. 701,563 Butcher's block scraper, B. I. Plummer. 701,553 Butcher's block scraper, B. I. Plummer. 701,553 Butcher's block scraper, B. I. Plummer. 701,553 Butcher's block scraper, B. I. Plummer. 701,551 Butcher's block scraper, B. I. Plummer. 701,551 Calculating machine, W. G. P. Rwell. 701,650 Calculating machine, W. G. P. Rwell. 701,650 Calculating machine, L. Schreiner. 701,551 Camera photographic, E. D. Bartlett. 701,786 Can. See Oil or gasolene can. Can heading machine, L. Schreiner. 701,551 Can dead of the graph of the schreiner. 701,551 Car draw gear, C. Wright . 701,683 Can dead of J. Garrigan. J. Smith. 701,684 Car draw, gear, C. Wright . 701,685 Car draw gear, C. Wright . 701,686 Car metallic frame box, J. M. Hansen. 701,586 Car metallic frame box, J. M. Hansen. 701,594 Car draw gear, C. Wright . 701,686 Car metallic frame box, J. M. Hansen. 701,594 Car draw gear, C. Wright . 701,685 Car metallic frame box, J. M. Hansen. 701,686 Carton brush and making	ten
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Box and fastener, O. O. Clayton	Boat stopping and holding device, P. M. Maloney
Box and fastener, O. O. Clayton	Boiler repair plug, C. Engelhardt 701,691 Boiler seam or joint, steam, S. M. Vauclain 701,777
Box Diank printing and scoring machine, F. Meisel, Gibson & Wessling. 701,493 Bricks, producing silica, Gibson & Wessling. 701,708 Bricks, producing silica, Gibson & Wessling. 701,708 Bricks, producing same, E. S. Meade. 701,507 Brush. Fourtain, Schwartz & Silberman. 701,508 Buckle suspender, W. T. Dugger. 701,689 Burglar alarm, Erickson & Peterson. 701,552 Burglar alarm, W. H. Moody. 701,753 Button and blank therefor, sheet metal, J. Hafer, J. Hafer, J. 701,717 Calcium, Garbins manufacture of, de Vuliteh Calculating wachine, W. G. Powell. 701,650 Calculating machine, W. G. Powell. 701,650 Calculating machine, E. Schafer. 701,721 Calendering machine, L. Schreiner. 701,511 Camera, photographic, E. D. Bartlett. 701,786 Can. See Oil or gasolene can. Can heading machine, A. W. Livingston. 701,589 Candel, T. J. Garrigan. 701,589 Candout utting machine, J. Smith. 701,653 Car obister, C. H. Shallenberger. 701,554 Car draw gear, C. Wright. 701,663 Car draw gear, C. Wright. 701,663 Car seat, H. S. Hale. 701,754 Car draw gear, C. Wright. 701,663 Car, tank, C. L. Wilmot. 701,663 Car, tank, C. L. Wilmot. 701,663 Car, tank, C. L. Wilmot. 701,663 Car seat, H. S. Hale. 701,720 Car seat, H. S. Hale. 701,733 Cartiage curtain, G. R. Harris. 701,337 Cartiage ruspers seating for shaping, and shapping and pasting same, Lee	Boring apparatus, rotary, W. Pruszkowski. 701,391 Bottle washer, H. S. Brewington 701,285
Broom brush G. W. Richardson 701,507 Brush fountain, Schwartz & Silberman 701,402 Bucket dumping apparatus, automatic, T. N. Jones 701,681 Buckle, M. J. Griffin 701,561 Buckle, Suspender, W. T. Dugger 701,683 Burglar alarm, Erickson & Peterson 701,552 Burglar alarm, Erickson & Peterson 701,553 Butcher's block scraper, B. I. Plummer 701,503 Button and blank therefor, sheet metal, J. Hafer, Jr 701,601 Calcium carbid, manufacture of, de Vulited & d'Orlowsky 701,651 Calcium carbid, manufacture of, de Vulited & d'Orlowsky 701,651 Calciunt gmachine, W. G. Powell 701,651 Caleidating machine, W. G. Powell 701,721 Caleidating machine, E. Schreiner 701,515 Camera, photographic, E. D. Bartlett 701,786 Camera, photographic, E. D. Bartlett 701,786 Can See Oll or gasolene can 701,525 Can Gan See Oll or gasolene can 701,525 Can deading machine, J. Smith 701,635 Car botster, C. S. Shalenberger 701,515 Car coupling, H. H. Marsball 701,594 Car door, grain, I. L. Edwards 701,551 Car draw gear, C. Wright 701,666 Car seat, H. S. Hale 701,766 Carbon brush and making same, M. Zeilers 701,363 Carding machine feeding mechanism, H. Kemp 701,663 Cartiage curt of routing mechanism, H. Kemp 701,363 Cartiage curt of routing mechanism, H. Kemp 701,363 Cartiage curt of routing mechanism, H. Racke 701,663 Churn, O. A. Dabil 101,763 Carding machine feeding mechanism, H. Kemp 701,363 Cartiage curt of routing mechanism, H. Racke 701,663 Churn, O. A. Dabil 101,763 Carding machine feeding mechanism, H. Racke 701,663 Controlling device for, E. Pisko 701,363 Controller, T. To To Sweigbergk 701,465 Controller, A. R. Gustafson 701,763 Controller, A. R. B. McKinley 701,466 Controller, T. P. Ford 701,466 Controller, A. R. Gustafson 701,466 Controller, J. T. Dickey 70	Box blank printing and scoring machine. F.
Broom brush G. W. Richardson 701,507 Brush fountain, Schwartz & Silberman 701,402 Bucket dumping apparatus, automatic, T. N. Jones 701,681 Buckle, M. J. Griffin 701,561 Buckle, Suspender, W. T. Dugger 701,683 Burglar alarm, Erickson & Peterson 701,552 Burglar alarm, Erickson & Peterson 701,553 Butcher's block scraper, B. I. Plummer 701,503 Button and blank therefor, sheet metal, J. Hafer, Jr 701,601 Calcium carbid, manufacture of, de Vulited & d'Orlowsky 701,651 Calcium carbid, manufacture of, de Vulited & d'Orlowsky 701,651 Calciunt gmachine, W. G. Powell 701,651 Caleidating machine, W. G. Powell 701,721 Caleidating machine, E. Schreiner 701,515 Camera, photographic, E. D. Bartlett 701,786 Camera, photographic, E. D. Bartlett 701,786 Can See Oll or gasolene can 701,525 Can Gan See Oll or gasolene can 701,525 Can deading machine, J. Smith 701,635 Car botster, C. S. Shalenberger 701,515 Car coupling, H. H. Marsball 701,594 Car door, grain, I. L. Edwards 701,551 Car draw gear, C. Wright 701,666 Car seat, H. S. Hale 701,766 Carbon brush and making same, M. Zeilers 701,363 Carding machine feeding mechanism, H. Kemp 701,663 Cartiage curt of routing mechanism, H. Kemp 701,363 Cartiage curt of routing mechanism, H. Kemp 701,363 Cartiage curt of routing mechanism, H. Racke 701,663 Churn, O. A. Dabil 101,763 Carding machine feeding mechanism, H. Kemp 701,363 Cartiage curt of routing mechanism, H. Racke 701,663 Churn, O. A. Dabil 101,763 Carding machine feeding mechanism, H. Racke 701,663 Controlling device for, E. Pisko 701,363 Controller, T. To To Sweigbergk 701,465 Controller, A. R. Gustafson 701,763 Controller, A. R. B. McKinley 701,466 Controller, T. P. Ford 701,466 Controller, A. R. Gustafson 701,466 Controller, J. T. Dickey 70	Brick, silica, Gibson & Wessling
N. Johes	
Car fender, J. D. Hodges	Brush, fountain, Schwartz & Silberman. 701,402 Bucket dumping apparatus, automatic, T. 701,812
Car fender, J. D. Hodges	N. Jones 701,561 Buckle, M. J. Griffin 701,561 Buckle, suspender, W. T. Dugger 701,689
Car fender, J. D. Hodges	Burglar alarm, Erickson & Peterson
Car fender, J. D. Hodges	Button and blank therefor, sheet metal, J. Hafer, Jr
Car fender, J. D. Hodges	Calcium carbid, manufacture of, de Vulitch & d'Orlowsky
Car fender, J. D. Hodges	Calculating machine, G. F. Harrison
Car fender, J. D. Hodges	Schafer 701,400 Camera, photographic, E. D. Bartlett 701,786
Car fender, J. D. Hodges	Can. See Oil or gasolene can. Can heading machine, A. W. Livingston 701,589 Can opener, H. G. Day 701,686
Car fender, J. D. Hodges	Candle, T. J. Garrigan
Car fender, J. D. Hodges	Car coupling, H. H. Marshall
Car fender, J. D. Hodges	Car draw gear, C. Wright
same, C. E. Parker. 701,501 Chair, S. M. Hudson. 701,728 Churn, O. A. Dahl 701,304 Cigar or cigarette mouthpjece, J. H. Raecke 701,613 Cigar wrapping machines, cutting and pasting device for, E. Pisko 701,388 Circuit breaker, B. P. Rucker. 701,621 Cleaner. See Paper cleaner. 701,621 Cleaner. See Paper cleaner. 701,621 Clein and lap link, combined, P. H. De Rochemont 701,803 Clipper, R. F. Werk 701,653 Clipper, hair, R. E. McKinley 701,663 Clipper, mane, J. A. McCollum 701,371 Clothes drier, H. C. & J. F. Evered 701,692 Clothes rack, O. P. Callahan 701,750 Collars, etc., machine for shaping and 8. Maxim 701,715 Collars, etc., machine for shaping and 8. Maxim 701,716 Collars, etc., machine for shaping and 8. Gustafson 701,716 Conductors from non-conductors, apparatus for spaparatus for spapar	Car fender, J. D. Hodges
same, C. E. Parker. 701,501 Chair, S. M. Hudson. 701,728 Churn, O. A. Dahl 701,304 Cigar or cigarette mouthpjece, J. H. Raecke 701,613 Cigar wrapping machines, cutting and pasting device for, E. Pisko 701,388 Circuit breaker, B. P. Rucker. 701,621 Cleaner. See Paper cleaner. 701,621 Cleaner. See Paper cleaner. 701,621 Clein and lap link, combined, P. H. De Rochemont 701,803 Clipper, R. F. Werk 701,653 Clipper, hair, R. E. McKinley 701,663 Clipper, mane, J. A. McCollum 701,371 Clothes drier, H. C. & J. F. Evered 701,692 Clothes rack, O. P. Callahan 701,750 Collars, etc., machine for shaping and 8. Maxim 701,715 Collars, etc., machine for shaping and 8. Maxim 701,716 Collars, etc., machine for shaping and 8. Gustafson 701,716 Conductors from non-conductors, apparatus for spaparatus for spapar	Car seat, H. S. Hafe
same, C. E. Parker. 701,501 Chair, S. M. Hudson. 701,728 Churn, O. A. Dahl 701,304 Cigar or cigarette mouthpjece, J. H. Raecke 701,613 Cigar wrapping machines, cutting and pasting device for, E. Pisko 701,388 Circuit breaker, B. P. Rucker. 701,621 Cleaner. See Paper cleaner. 701,621 Cleaner. See Paper cleaner. 701,621 Clein and lap link, combined, P. H. De Rochemont 701,803 Clipper, R. F. Werk 701,653 Clipper, hair, R. E. McKinley 701,663 Clipper, mane, J. A. McCollum 701,371 Clothes drier, H. C. & J. F. Evered 701,692 Clothes rack, O. P. Callahan 701,750 Collars, etc., machine for shaping and 8. Maxim 701,715 Collars, etc., machine for shaping and 8. Maxim 701,716 Collars, etc., machine for shaping and 8. Gustafson 701,716 Conductors from non-conductors, apparatus for spaparatus for spapar	Carbon brush and making same, W. Mills. 701,369 Carbon sorting machine, M. M. Zellers
same, C. E. Parker. 701,501 Chair, S. M. Hudson. 701,728 Churn, O. A. Dahl 701,304 Cigar or cigarette mouthpjece, J. H. Raecke 701,613 Cigar wrapping machines, cutting and pasting device for, E. Pisko 701,388 Circuit breaker, B. P. Rucker. 701,621 Cleaner. See Paper cleaner. 701,621 Cleaner. See Paper cleaner. 701,621 Clein and lap link, combined, P. H. De Rochemont 701,803 Clipper, R. F. Werk 701,653 Clipper, hair, R. E. McKinley 701,663 Clipper, mane, J. A. McCollum 701,371 Clothes drier, H. C. & J. F. Evered 701,692 Clothes rack, O. P. Callahan 701,750 Collars, etc., machine for shaping and 8. Maxim 701,715 Collars, etc., machine for shaping and 8. Maxim 701,716 Collars, etc., machine for shaping and 8. Gustafson 701,716 Conductors from non-conductors, apparatus for spaparatus for spapar	panik
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Clevis, Chidester & Turk. 701,540 Clip and lap link, combined, P. H. De Rochemont 701,803 Clipper, R. F. Werk. 701,653 Clipper, hair, R. E. McKinley. 701,603 Clipper, hair, R. E. McKinley. 701,601 Clipper, mane, J. A. McCollum. 701,371 Clothes drier, H. C. & J. F. Evered. 701,692 Clothes rack, O. P. Callahan. 701,792 Clothes rack, O. P. Callahan. 701,290 Coffee, apparatus for the treatment of, H. S. Maxim 701,317 Collars, etc., machine for shaping, A. R. Gustafson 701,317 Collars, etc., machine for shaping and smoothing, A. R. Gustafson. 701,716 Concrete, etc., mixing machine for, W. B. Cavin 701,317 Concrete, etc., mixing machine for, W. B. Cavin 701,465 Conductors from non-conductors, apparatus for separating, Swart & Blake. 701,465 Conductors from non-conductors, apparatus for grom, apparatus for covering flexible, J. T. Dickey. 701,402 Controller, T. von Zweigbergk. 701,455 Controlling device, T. P. Ford. 701,701 Conveyers, hanger coupler bearing for screw, Smith & Mathis. 701,636 Coppy holder, J. H. McBride. 701,492 Copy holder, J. H. McBride. 701,493 Copying documents, drawings, etc., apparatus for, E. Sinclair. 701,791 Corn husker and shredder and ensilage cutter, A. Rosenthal 701,409 Copy holder, J. W. Wooten 701,494 Cotton chopper, L. W. Wooten 701,496 Cotton chopper, F. M. & L. E. Sharp 701,686 Cotton chopper, F. M. & L. E. Sharp 701,791 Counterbalancing the momentum of recipro-	Catridge, J. Orcutt
Clevis, Chidester & Turk. 701,540 Clip and lap link, combined, P. H. De Rochemont 701,803 Clipper, R. F. Werk. 701,653 Clipper, hair, R. E. McKinley. 701,603 Clipper, hair, R. E. McKinley. 701,601 Clipper, mane, J. A. McCollum. 701,371 Clothes drier, H. C. & J. F. Evered. 701,692 Clothes rack, O. P. Callahan. 701,792 Clothes rack, O. P. Callahan. 701,290 Coffee, apparatus for the treatment of, H. S. Maxim 701,317 Collars, etc., machine for shaping, A. R. Gustafson 701,317 Collars, etc., machine for shaping and smoothing, A. R. Gustafson. 701,716 Concrete, etc., mixing machine for, W. B. Cavin 701,317 Concrete, etc., mixing machine for, W. B. Cavin 701,465 Conductors from non-conductors, apparatus for separating, Swart & Blake. 701,465 Conductors from non-conductors, apparatus for grom, apparatus for covering flexible, J. T. Dickey. 701,402 Controller, T. von Zweigbergk. 701,455 Controlling device, T. P. Ford. 701,701 Conveyers, hanger coupler bearing for screw, Smith & Mathis. 701,636 Coppy holder, J. H. McBride. 701,492 Copy holder, J. H. McBride. 701,493 Copying documents, drawings, etc., apparatus for, E. Sinclair. 701,791 Corn husker and shredder and ensilage cutter, A. Rosenthal 701,409 Copy holder, J. W. Wooten 701,494 Cotton chopper, L. W. Wooten 701,496 Cotton chopper, F. M. & L. E. Sharp 701,686 Cotton chopper, F. M. & L. E. Sharp 701,791 Counterbalancing the momentum of recipro-	Chair, S. M. Hudson
Clevis, Chidester & Turk. 701,540 Clip and lap link, combined, P. H. De Rochemont 701,803 Clipper, R. F. Werk. 701,653 Clipper, hair, R. E. McKinley. 701,603 Clipper, hair, R. E. McKinley. 701,601 Clipper, mane, J. A. McCollum. 701,371 Clothes drier, H. C. & J. F. Evered. 701,692 Clothes rack, O. P. Callahan. 701,792 Clothes rack, O. P. Callahan. 701,290 Coffee, apparatus for the treatment of, H. S. Maxim 701,317 Collars, etc., machine for shaping, A. R. Gustafson 701,317 Collars, etc., machine for shaping and smoothing, A. R. Gustafson. 701,716 Concrete, etc., mixing machine for, W. B. Cavin 701,317 Concrete, etc., mixing machine for, W. B. Cavin 701,465 Conductors from non-conductors, apparatus for separating, Swart & Blake. 701,465 Conductors from non-conductors, apparatus for grom, apparatus for covering flexible, J. T. Dickey. 701,402 Controller, T. von Zweigbergk. 701,455 Controlling device, T. P. Ford. 701,701 Conveyers, hanger coupler bearing for screw, Smith & Mathis. 701,636 Coppy holder, J. H. McBride. 701,492 Copy holder, J. H. McBride. 701,493 Copying documents, drawings, etc., apparatus for, E. Sinclair. 701,791 Corn husker and shredder and ensilage cutter, A. Rosenthal 701,409 Copy holder, J. W. Wooten 701,494 Cotton chopper, L. W. Wooten 701,496 Cotton chopper, F. M. & L. E. Sharp 701,686 Cotton chopper, F. M. & L. E. Sharp 701,791 Counterbalancing the momentum of recipro-	Cigar wrapping machines, cutting and pasting device for, E. Pisko
Clipper, R. F. Werk	Clevis, Chidester & Turk
Clothes drier, H. C. & J. F. Evered	Clip and lap link, combined, P. H. De Rochemont
Collapsible reel, F. English	Clipper, hair, R. E. McKinley. 701,601 Clipper, mane, J. A. McCollum. 701,371
Collapsible reel, F. English	Clothes rack, O. P. Callahan
Collars, etc., machine for shaping, A. R. Gustafson 701,716 Collars, etc., machine for shaping and smoothing, A. R. Gustafson 701,715 Concrete column, O. W. Norcross. 701,377 Concrete, etc., mixing machine for, W. B. Cavin 701,465 Conductors from non-conductors, apparatus for separating, Swart & Blake. 701,417 Conduits with rubber in cement or liquid form, apparatus for covering flexible, J. T. Dickey 701,472 Controller, T. von Zweigbergk 701,455, 701,456 Controlling device, T. P. Ford. 701,701 Conveyers, hanger coupler bearing for screw, Smith & Mathis 701,452 Copy holder, J. H. McBride 701,459 Copy holder, J. H. McBride 701,459 Copying documents, drawings, etc., apparatus for, E. Sinclair 701,409 Copying press, roller, P. H. Yawman 701,409 Copying press, roller, P. H. Yawman 701,409 Corpying press, roller, P. H. Yawman 701,409 Corpying press, roller, P. H. Yawman 701,409 Corpying press, roller, P. H. Yawman 701,409 Corps holder, J. W. Wooten 701,491 Corn shock loading device, W. A. Tea. 701,495 Cotton chopper, L. W. Wooten 701,486 Cotton chopper, F. M. & L. E. Sharp 701,686 Counterbalancing the momentum of recipro-	Coffee, apparatus for the treatment of, H. S. Maxim
Smoothing, A. R. Gustarson. 701,415 Concrete column, O. W. Norcross. 701,465 Cavin 701,465 Conductors from non-conductors, apparatus for separating, Swart & Blake. 701,417 Conduits with rubber in cement or liquid form, apparatus for covering flexible, J. T. Dickey. 701,455 Controller, T. von Zweigbergk. 701,455 Controlling device, T. P. Ford. 701,455 Controlling device, T. P. Ford. 701,701 Conveyers, hanger coupler bearing for screw, Smith & Mathis. 701,636 Copp hardening, Walter & Keiner 701,429 Copy holder, J. H. McBride. 701,599 Copy holder, J. H. McBride. 701,599 Copying documents, drawings, etc., apparatus for, E. Sinclair 701,409 Copying press, roller, P. H. Yawman 701,407 Corkscrew, automatic, R. B. Andros. 701,791 Corn husker and shredder and ensilage cutter, A. Rosenthal 701,409 Corn shock loading device, W. A. Tea. 701,495 Cotton chopper, L. W. Wooten 701,496 Cotton chopper, F. M. & L. E. Sharp 701,791 Counterbalancing the momentum of recipro-	Collars, etc., machine for shaping, A. R.
Conductors from non-conductors, apparatus for separating, Swart & Blake 701,417 for separating for cement or liquid form, apparatus for covering flexible, J. T. Dickey 701,455, 701,456 Controlling device, T. P. Ford 701,701 Conveyers, hanger coupler bearing for screw, Smith & Mathis 701,636 Copper, hardening, Walter & Keiner 701,439 Copy holder, J. H. McBride 701,599 Copying documents, drawings, etc., apparatus for, E. Sinclair 701,409 Copying press, roller, P. H. Yawman 701,471 Corkscrew, automatic, R. B. Andros 701,791 Corn husker and shredder and ensilage cutter, A. Rosenthal 701,409 Cotton chopper, L. W. Wooten 701,496 Cotton chopper, L. W. Wooten 701,497 Cotton chopper, F. M. & L. E. Sharp 701,496 Cotton gin, roller, C. J. McPherson 701,781 Counterbalancing the momentum of recipro-	Concrete column O W Norcross 701,377
for separating, Swart & Blake 701,417 Conduits with rubber in cement or liquid form, apparatus for covering flexible, J. T. Dickey	Cavin
Copying documents, drawings, etc., apparatus for, E. Sinclair	for separating, Swart & Blake 701,417 Conduits with rubber in cement or liquid
Copying documents, drawings, etc., apparatus for, E. Sinclair	J. T. Dickey
Copying documents, drawings, etc., apparatus for, E. Sinclair	Conveyers, hanger coupler bearing for screw, Smith & Mathis
atus for, E. Sinclair	Copy holder, J. H. McBride
Corn husker and shredder and ensilage cutter, A. Rosenthal	atus for, E. Sinclair
Corn shock loading device, W. A. Tea. 701,645 Cotton chopper, L. W. Wooten. 701,446 Cotton chopper, F. M. & L. E. Sharp. 701,768 Cotton gin, roller, C. J. McPherson. 701,814 Counterbalancing the momentum of reciprocating elements, means for, M. N. Forney. 701,477 Cultivator, J. M. Talbert. 701,419 Cultivator, rotary, J. Scott. 701,512 Current motor, W. L. Walter. 701,430 Curtain fastener, A. M. Shauck. 701,630 Curtain fastener, A. M. Shauck. 701,630 Curtain pole and hanger, H. P. Roberts. 701,817 Cuspidor, E. L. & W. H. Cadwell. 701,291 Cycle propelling mechanism, C. Olson. 701,761 Cycling, construction of courses or tracks, for, C. H. Jones. 701,348 Dental apparatus, switch for electromotors for driving, Schreier & Dumler. 701,627 Dental matrix, W. Crenshaw. 701,348 Disinfectant powder, making, J. Rother. 701,620 Disinfectants, making, J. Rother. 701,620 (Continued on page £33)	Corn husker and shredder and ensilage cut- ter, A. Rosenthal
Cotton gin, roller, C. J. McPherson	Cotton chopper, F. M. & I. E. Sharp. 701,645 Cotton chopper F. M. & I. E. Sharp. 701,768
cating elements, means 10r, M. N. F07 ney J. Tolly S. Tolly S. Toll, 417 Cultivator, J. M. Talbert 701, 419 Cultivator, rotary, J. Scott 701, 512 Current motor, W. L. Walter 701, 430 Curtain fastener, A. M. Shauck 701, 630 Curtain fixture, Jordan & Egan. 701, 570 Currain pole and hanger, H. P. Roberts 701, 817 Cuspidor, E. L. & W. H. Cadwell 701, 291 Cyanids, making, G. Ottermann 701, 604 Cycle propelling mechanism, C. Olson 701, 761 Cycling, construction of courses or tracks, for, C. H. Jones 701, 348 Dental apparatus, switch for electromotors for driving, Schreier & Dumler 701, 627 Dental matrix, W. Crenshaw 701, 799 Dental tool for slitting cap crowns, C. J. Reynolds 701, 816 Disinfectant powder, making, J. Rother 701, 820 (Continued on page £33)	Cotton gin, roller, C. J. McPherson
Cultivator, rotary, J. Scott	ney
Curtain fixture, Jordan & Egan	Cultivator, rotary, J. Scott 701,512 Current motor, W. L. Walter 701,430 Curtain fastener, A. M. Shauck 701 630
Cyanids, making, G. Ottermann. 701,604 Cycle propelling mechanism, C. Olson. 701,761 Cycling, construction of courses or tracks, for, C. H. Jones. 701,348 Dental apparatus, switch for electromotors for driving, Schreier & Dumler. 701,627 Dental matrix, W. Crenshaw. 701,792 Dental tool for slitting cap crowns, C. J. Reynolds 701,616 Disinfectant powder, making, J. Rother. 701,620 Disinfectants, making, Kendrick & Dixon. 701,352 (Continued on page 133)	Curtain fixture, Jordan & Egan
Urcling, construction of courses or tracks, for, C. H. Jones	Cyanids, making, G. Ottermann
for driving, Schreier & Dumler	Cycling, construction of courses or tracks, for, C. H. Jones
Reynolds	for driving, Schreier & Dumler
Disinfectants, making, Kendrick & Dixon 701,352 (Continued on page 433)	Reynolds
	Disinfectants, making, Kendrick & Dixon 701,352 (Continued on page 433)