

RECENTLY PATENTED INVENTIONS.

Electrical Devices.

TELEPHONE - RECEIVER SUPPORT. - GEORGE M. BEERBOWER, New York, N. Y. The support is so arranged as to permit the user to place his ear against the receiver and hold his head in any convenient position, or move it in any direction within reasonable limits, while the receiver is kept constantly against his ear, thus leaving both hands free to take notes or handle memoranda.

Engineering Improvements.

SPEED REGULATOR FOR EXPLOSIVE ENGINE. - O. C. WOVRES, Dayton, Ohio. The explosive mixture and the exhaust are accurately controlled by a single rotary valve, and the latter is automatically controlled by the governor to insure a uniform speed of the engine. The valve is mounted on a shaft which is connected by a clutch to a second shaft geared to make one revolution for every two of the driving shaft. The governor is so arranged as to disengage the clutch when the engine runs too fast.

PUMPING - ENGINE. - J. J. DELANEY, Shamokin, Pa. The invention provides a simple and efficient steam pumping-engine which has but few wearing parts and is capable of high piston speed without lost motion. The steam is admitted to the cylinder to cushion the piston at the end of its stroke and to reduce jars. As the piston reciprocates, a roller mounted on the crosshead alternately engages arms which are adjustably connected with a rocker to throw the latter first one way and then the other. The rocker gives an intermittent reciprocating motion to the valve-rod which may be varied according to the speed of the pump. The valve-rod passes through a check-cylinder so arranged as to permit a rapid initial motion of the rod and the slide valve connected therewith, insuring the quick closing of the steam inlet port, and then a subsequent slower motion, allowing time for expansion.

Hardware.

DOOR-LATCH-OPERATING DEVICE. - T. G. LESLIE, East Melbourne, Victoria, Australia. An annulus is fastened to each side of the door, and screwed on to the lock spindle are the knobs bearing respectively against the annulus. Pins project from each annulus and fit loosely in slots in the knobs to limit their turning movement.

MANICURE-KNIFE. - W. S. REED, Smyrna, Del. The implement is designed for use in cutting, trimming, filing, scraping, cleaning and otherwise caring for the nails of the fingers and toes. The handle is provided at one end with a knife blade and a file blade. The latter is provided at its outer extremity with a nail-cleaner, a nail-scraper, and a portion which is formed as a lifter for lifting up and pressing back the flesh and skin at the root of the nail. The handle is constructed at its upper end to support a rotary cutter for trimming the nails.

CURTAIN-POLE RING. - A. HOTHAN, Brooklyn, N. Y. The invention relates to curtain-pole rings having rollers traveling on the pole. Each projecting end of the roller axle is bent in a U-shape, and they enter respectively the openings on each side of the roller recess. Notches in the axle ends engage the wall of the ring to prevent the roller from dropping out when removed from the curtain-pole.

VALVE. - N. BOLENSKY, Hermitage, N. Y. The invention relates to check-valves and aims to give convenient access to the working parts at any time, and to allow quick replacement of worn-out parts with new ones. On one side of the valve body is formed an extension, containing a cage consisting of bars, to each end of which valve-seats are secured. The cage is therefore reversible. Midway between the valve-seats a stop is arranged for limiting the opening movement of the valve, which is preferably in the shape of a ball.

Miscellaneous Inventions.

GUN BARREL. - W. F. COLE, Waco, Texas. It is well known to expert gunners that the higher the force of the charge, and the greater the pitch of the rifling, the more liable is the projectile, especially in small firearms, to ride or cross the rifling, so that no rotation is imparted to it. On the other hand, if the pitch of the rifling is reduced, the rapidity of rotation is lessened, and the trajectory impaired. This invention, which applies to small firearms, has a bore which is smooth throughout. The bore is cylindrical at the breech and throat, but is elliptical and uniformly twisted in the remaining portion, thus giving a rotary motion to the projectile.

TAG-FASTENER. - S. G. SPENCER, Shreveport, La. The fastener is designed for application to the bolt board of bolts of cloth or other fabric. When in place the end arms of the fastener conform to, and rest snugly against, the ends of the boards, while the side arms rest snugly against the sides of the boards, no matter what their thickness. At the ends of the side arms are hooks, or prongs, which bite into opposite faces of the bolt board.

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Machine Work of every description. Jobbing and repairing. The Garvin Machine Co., 149 Varick, cor. Spring Sts., N. Y. Inquiry No. 2298. - For manufacturers of barrel staves.

Manufacturers of patent articles, dies, stamping tools, light machinery. Quadriga Manufacturing Company, 18 South Canal Street, Chicago. Inquiry No. 2299. - For manufacturers of acetylene gas plants for residences.

Patents developed and manufactured, dies, special tools, metal stamping and screw machine work. Metal Novelty Works Co., 43-47 S. Canal St., Chicago. Inquiry No. 2300. - For address of the publishers of the "Acetylene Gas Journal."

The celebrated "Hornsbry-Akroyd" Patent Safety Oil Engine is built by the De La Vergne Refrigerating Machine Company. Foot of East 138th Street, New York. Inquiry No. 2301. - For wholesale dealers in white gutta percha.

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. 2302. - For machines, run by power, for making wire fencing.

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Inquiry No. 2305. - For dealers in stereoscopes and views. Inquiry No. 2306. - For dealers in gasogenes and apparatus for making carbonated waters.

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Inquiry No. 2317. - For an outfit for tinning small articles. Inquiry No. 2318. - For parties to make paper novelties, such as teaspoons with hollow handle.

Inquiry No. 2319. - For manufacturers of "Locomotive Turn Table." Inquiry No. 2320. - For dealers in grinding magnesite.

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Inquiry No. 2325. - For machinery for making pulp out of waste straw and paper to be made into boards. Inquiry No. 2326. - For makers of blackboard erasers.

Inquiry No. 2327. - For makers of wire-bending machinery. Inquiry No. 2328. - For dealers in second-hand lathes. Brown & Sharpe's preferred.

Inquiry No. 2329. - For machines for making muslin or silk. Inquiry No. 2330. - For parties to make small mirrors with narrow metal rims  $\frac{3}{16}$  in. in diameter.

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INDEX OF INVENTIONS

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

March 18, 1902,

AND EACH BEARING THAT DATE.

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

Table of inventions with patent numbers, including entries like Acid ethers of the cinchona alkaloids, advertising blotter, aerator, milk, G. Look, etc.

Continuation of the table of inventions, including entries like Draft equalizer, J. L. Sutton, Draft equalizer, J. C. & J. Bell, Drafting apparatus, H. S. Lydick, etc.

(Continued on page 229)



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Table listing various mechanical parts and their prices, including Toy animal, Toy bow, Trace catch and holder, Train indicating apparatus, etc.

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Table listing designs such as Belt, apparel, Clock case, Condom cup, Ferrule, etc.

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A printed copy of the specification and drawing of any patent in the foregoing list, or any patent in print issued since 1863, will be furnished from this office for 10 cents, provided the name and number of the patent desired and the date be given.

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