

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. OBOLSKY, 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.

NOTE. - Copies of any of these patents will be furnished by Munn & Co. for ten cents each. Please state the name of the patentee, title of the invention, and date of this paper.

Business and Personal Wants.

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

Marine Iron Works. Chicago. Catalogue free. Inquiry No. 2288. - For manufacturers of ocean wave swings.

Motor Vehicles. Duryea Power Co., Reading, Pa. Inquiry No. 2289. - For manufacturers of merry-go-rounds. "C. S." Metal Polish. Indianapolis. Samples free.

Inquiry No. 2290. - For makers of screw-cutting foot power lathes.

WATER WHEELS. Alcott & Co., Mt. Holly, N. J. Inquiry No. 2291. - For manufacturers of small balloons. Handle & Spoke Mch. Ober Mfg. Co., 10 Bell St., Chargin Falls, O.

Inquiry No. 2292. - For whitewood or cucumber-wood. Sawmill machinery and outfits manufactured by the Lane Mfg. Co., Box 13, Montpelier, Vt.

Inquiry No. 2293. - For veneer-cutting machinery for making scale boards. Rigs that Run. Hydrocarbon system. Write St. Louis Motor Carriage Co., St. Louis, Mo.

Inquiry No. 2294. - For makers of peanut slot machines. For metal articles, any kind, made any shape, write us. Metal Stamping Company, Niagara Falls, N. Y.

Inquiry No. 2295. - For makers of pickles, sauces, etc. Are you looking for anything in bent woodwork? Write Tucker Bicycle Woodwork Co., Urbana, Ohio.

Inquiry No. 2296. - For the makers of "Our Pride" handmill. We develop inventions through their several stages, manufacturing for the market. Amstutz Osborn Co., Cleveland, O.

Inquiry No. 2297. - For dealers in small malleable iron castings. 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 "Hornby-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. WANTED. - Mechanical engineer, one acquainted with fertilizer and oleo plants preferred. Permanent position to party able to satisfy. Address "Fertilizer," Box 773, New York.

Inquiry No. 2303. - For dealers in toy novelties. Wanted. - Revolutionary Documents, Autograph Letters, Journals, Prints, Washington Portraits, Early American Illustrated Magazines. Correspondence Solicited. Address C. A. M. Box 773, New York.

Inquiry No. 2304. - For makers of small dynamos and storage cells. Inquiry No. 2305. - For dealers in stereoscopes and views.

Inquiry No. 2306. - For dealers in gasogenes and apparatus for making carbonated waters. Inquiry No. 2307. - For makers of coconut shredding machines.

Inquiry No. 2308. - For a cokes breakmachine for steam or hand power. Inquiry No. 2309. - For machines for mixing condition powders.

Inquiry No. 2310. - For makers of cedar ice cream tubs. Inquiry No. 2311. - For a machine to be driven by a 5 horse power portable gasoline engine for making tank dams.

Inquiry No. 2312. - For a lawn mower that will cut outside the wheels. Inquiry No. 2313. - For a high-grade balanced slide valve engine of 200 h. p.

Inquiry No. 2314. - For dealers in electric heating apparatus. Inquiry No. 2315. - For a manufacturing plant for mohair goods.

Inquiry No. 2316. - For machinery for making potatoes fine enough for starch-making purposes. 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. Inquiry No. 2321. - For dealers in rollers for rolling molten glass into sheets.

Inquiry No. 2322. - For wholesale dealers in small carved Mexican canes. Inquiry No. 2323. - For a boiler 4 or 6 h. p. adapted for launch, quick steamer, etc.

Inquiry No. 2324. - For an alcohol motor for launch about 4 h. p. 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 1/4 in. in diameter.

Inquiry No. 2331. - For a belt 6 in. wide and 42 in. long of strips or leather 1/4 in. wide, known as a "laminated belt." Inquiry No. 2332. - For parties to make a porcelain igniter of special design. Inquiry No. 2333. - For manufacturers of mail chutes. Inquiry No. 2334. - For manufacturers of clothes-pin machinery. Inquiry No. 2335. - For manufacturers of small wood-working machinery. Inquiry No. 2336. - For manufacturers of lawn mower grinders. Inquiry No. 2337. - For manufacturers of small frictional machines.

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 listing inventions with patent numbers and names of inventors. Includes items like Acid ethers of the cinchona alkaloids, Advertising blotter, Aerator, Air brake, Air ship, Air, vacuum or steam brakes, hose-coupling for, Roberts & Kestler, Aluminous ores, purifying, D. A. Penrakoff, Anchor, J. Eynon, Awl, sewing, J. S. Padon, Ax handle clamp, L. Johnson, Ax head and handle therefor, R. H. Carter, Ball, See Golf ball, Balls, manufacture of playing, E. Kempshall, Book dressing machine, V. Berford, Bank, coin deposit, H. J. Valentine, Bearing, roller side, J. C. Wands, Bearing, shaft thrust, Fulton & Ames, Bed, knockdown, W. W. Locher, Bed or seat bottom, spring, E. E. Eyster, Bed spring, A. Guay, Bed spring, F. Moehle, Bedsteads, manufacture of metallic, I. Van Hagen, Bell, C. L. Newton, Belt, M. C. Garland, Bicycle motor, R. M. Keating, Bicycle pump coupling, J. N. Hatch, Binder, hand, H. M. Huntington, Blast furnace, C. I. Rader, Bloom perforating apparatus, J. Fritz, Boat, W. C. McKelvey, Boat, life, C. Dickenson, Boiler, C. F. Lape, Boiler tube cutter, C. A. Beland, Bolt rest, J. Hill, Bottle, non-refillable, J. B. Latham, Bottle rinsing machine, G. Doherty, Bowling alley, E. Reisky, Box, F. H. Houghland, Box, A. F. Mack, Box, J. E. Faris, Braiding machine, F. Meyer, Braiding machine, A. B. Diss, Braiding machine, J. Lundgren, Brake head, J. Farley, Brakes, truck machine for automatically applying, E. C. Rowell, Brewery grain, etc., apparatus for expressing moisture from, J. C. W. Stanley, Brick and kiln furnace, F. E. Swift, Brush, coin operated hair, C. M. Stiner, Building block for dyes, E. L. Moore, Building construction, A. Goodman, Burner, C. Wolf, Butter cutting machine, G. L. Smith, Button, tufting, F. Marggraf, Caliper gage, A. K. Theibault, Callipers, G. Knapp, Camera multiplying attachment, W. L. Root, Camera, photographic, E. D. Bartlett, Camera, photographic, W. D. Macdonald, Can, See Oil can, Can, M. Grant, Can body and sheet metal blank, solder charged, G. Wilcox, Can body blank, J. Lee, Can cover fastening device, W. H. Smalley, Can dipping machine, G. Wilcox, Can fusing machine, G. Wilcox, Can heads, securing, G. Wilcox, Can scrubbing apparatus, milk, R. Nelson, Canceler, stamp, J. Guidinger, Candy box, W. H. Lease, Car coupling, J. C. Leidy, Car coupling, S. C. Mason, Car coupling, E. Grafstrom, Car coupling, C. Altman, Car door, H. J. Rhodes, Car, dumping, F. C. Dunham, Car, gondola freight, Newberry & Ericson, Card cleaning machine, playing, E. O. Mocket, Carding machine, C. H. Potter, Carpet raker, V. E. Richardson, Carpet stretcher, J. B. Russell, Carpet stretcher, J. Whitehart, Carpet sweeper, T. H. Bedell, Cartridge, G. O. Hawk, Cartridge box, G. Migliardi, Cascade tumble, Carson & Cunell, Chafe iron, roller, T. H. Brady, Check book, S. F. Hall, Chloranilsidin, Julius & Jahrmart, Cigar box opening implement, F. R. Diaz, Cigarette tubes, machine for filling paper, Hageberg & Lindelof, Cistern, form or pattern for cement, S. L. Dunlop, Clamp for filing shaft keys, B. Holland, Clevis, W. L. Hudson, Clothes drier, D. T. Brown, Clutch, J. Turnbull, Coal stamping machine, R. Kuhn, Coal washer and ore concentrator, A. C. Campbell, Coaster brake, Hanrott & Seyd, Comminuting machine, Geiger & Turney, Composition of matter, Jones & Tunnell, Conductor carrier, A. H. Stewart, Conductors, manufacturing contact pieces between first and second class, W. Boehm, Conduit, P. A. McGeorge, Conduit, V. H. Yarnall, Confectionary machine, W. S. Dillon, Converter, J. S. Klein, Coping tool or chisel, E. Beam, Corn from the cob, machine for cutting green, Fenton & Wade, Corn husking machine, R. C. Johnson, Cornstalk cutter, B. C. Roberts, Cotton gin feeder, S. D. Murray, Couch or other receptacle, wardrobe sofa, L. C. Le Count, Crate fruit, H. T. Miller, Curtain or shade holding fixture, J. H. Milans, Cut-out, automatic, Seeley & Silet, Cyclometer and register mechanism, L. J. Burdick, Denture, artificial, A. F. Cogswell, Desk leaf support, J. F. Dietz, Dextrine, glucose, and alcohol, converting wood, wood shavings, etc., into, Magnier & Brangier, Die, J. Dewes, Displaying apparatus, sample, C. Olsen, Displaying merchandise, cabinet for, J. W. Morgan, Door catch and lock, R. C. Secker, Doubling and shearing apparatus, C. W. Bray, Draft equalizer, J. L. Sutton, Draft equalizer, J. C. & J. Bell, Drafting apparatus, H. S. Lydick, Drawer opening device, C. H. Bakeman, Drier. See Clothes drier, Drill drag bar, W. Fetzner, Dye and making same, black sulfur, F. Reubold, Dye and making same, sulfur, A. Bonati, Dye, red azo, Julius & Gunther, Dyes, making phthalein, J. J. Brack, Dyeing apparatus, J. Hussong, Egg, vermin destroying nest, E. T. Stuart, Electric contact device, N. C. Cotabish, Electric generator, E. C. Woodell, Electric lighting system, Thomson & Houston, Electric lock, E. Herman, Electrical conductors, junction sleeve for, Donovan & Alderson, Electrical switch, R. L. Border, Electrical transmission system, F. Bedell, Electrically operated switch, E. V. R. Stockman, Electromagnetic apparatus, F. B. Cook, Ellipsograph, O. H. Bonner, Embossing press, S. Curtis, Engine, A. A. & W. L. Darby, Engine, H. N. Molsinger, Engine reversing gear, G. H. Ebel, Envelop for holding samples of dress goods, L. Lyon, Escutcheon plate, J. B. Miller, Espagnolette lock, J. Meier, Exercising machine, A. de Clairmont, Explosive engine, W. L. Judson, Explosives, producing, J. Bonnet, Fabric cutting machine, J. A. Heany, Fare register, H. Hart, Farm or yard gate, D. M. Cox, Fastening device, C. R. Schlieper, Faucet, J. E. O'Leary, Fence jack, Kelly & Amspacher, Fence post, iron, P. Borchers, File, book, T. A. King, Fire alarm telegraph repeater, L. G. Woolley, Firearm, H. H. Passage, Firearm, automatic, Bennett & Mason, Firearm, breech-loading, M. C. Lisle, Firearm, magazine, J. B. Mahoney, Firearm, magazine, S. A. Huntley, Fire escape, J. Williams, Fire extinguisher, R. T. & C. J. Van Valkenburg, Fireproof covering for frame structures, R. Heilmann, Fireproofed wood and making same, J. L. L. Ferrell, Fireproofing compound and making same, J. L. Ferrell, Fireproofing preservatives, etc., impregnating wood with, J. L. Ferrell, Foundations, preparing, N. Schietkiewics, Furnace, C. Stauss, Furnace, A. J. Miller, Furnace charging apparatus, B. A. Franklin, Furnace grate raking device, McDonald & Brennan, Gage. See Caliper gage, Game and library table, E. Loyer, Game apparatus, W. H. Atwood, Garment supporter, O. Warlich, Gas burner valve, M. C. Gilbert, Gas burner valve locking mechanism, M. I. Cohen, Gas lighter, R. E. Fahng, Gas purifier, J. B. Doherty, Gate, R. H. Berkschmidt, Gate, P. C. Forrester, Gearing, changeable speed, V. V. Torben sen, Glassware, manufacture of handled, H. Bastow, Glove, H. H. Steele, Gluten tailings, utilizing, E. Gudeman, Golf ball, E. Kempshall, Golf balls, manufacture of, E. Kempshall, Golf club, C. R. Parmele, Grader, J. Bagley, Grain drill, W. G. Bolus, Grate, heating, Rose & Brockschmidt, Gun fluid brake, O. Behnke, Gutta percha or the like from leaves or twigs containing it, extracting, G. Mitchell, Handle clasp, C. W. Blue, Hat tip or lining, C. F. Beatty, Hay press, Ramage & Slaughter, Heat radiating device, W. Diebel, Hinge, R. Frank, Hinge, closet seat, C. Evans, Hinge, spring, A. J. Rosentreter, Hinge, spring, J. Bradley, Hinge, spring, E. Bommer, Hoisting and conveying apparatus, G. E. Titcomb, Hoisting gear, F. V. Nelsen, Hoof trimmer, A. R. Corrington, Hook, C. B. Johnson, Hoop for barrels, etc., B. G. Jayne, Hub, vehicle wheel, J. S. Layton, Ice conveyor gallery, sectional, Lynch & Huey, Identity indicating device, C. W. Smith, Inhaler, ozone, R. F. W. Smith, Insulated joint for electrical conductors, E. W. Batchelor, Insulating machine and manufacturing same, Stocker & Zander, Iron and iron alloys, manufacturing, F. C. Crean, Ironing table, folding, Woods & Crumplar, Jeweler's mold, F. D. Strang, Journal bearing molding machine, F. J. Lass, Lamp, electric, W. McConnell, Lamp, incandescent, L. Thayer, Lamp support, incandescent, F. W. Morse, Lantern slide moving device, automatic, W. Fredrick, Leather and producing it, imitation, H. Rosenberg, Leather working machine, A. F. Jones, Leather working machine, C. P. Vaughn, Lens system, E. F. Grun, Leveling rod, engineer's, J. H. Beckley, Load indicator, M. F. Sinclair, Lock, R. H. Earn, Locomotive pilot and car coupling therefor, E. Grafstrom, Loom, C. J. Nauen, Loom, hammock, Z. L. Chadbourne, Loom shedding mechanism, B. Hilbert, Loom weft replenishing mechanism, F. O'Donnell, Lubricator, G. Fisher, Machine tool feed mechanism, H. B. Binsse, Match box, collapsible, J. Dellinger, Match delivering and igniting device, W. H. Burden, Measuring and registering device, liquid, G. M. Marshall, Measuring weir, H. A. Icke, Metal tubes, making, E. Emerson, Mill. See Windmill, Mine gate, N. K. Bowman, Molding apparatus sprue, C. R. Davis, Molding machine, B. C. White, Monument inscription frame, T. B. White, Needle, tape, J. & H. N. Brown, Nut lock, C. S. Pruden, Nut tapping machine, M. R. Nolan, Oil can, W. S. Weir, Oil from cotton seed, extracting, McFarlane & Reinohl, Ordnance, obturator for breech-loading, Dawson & Buckham, Ore concentrating machine, McDermott & Elmore, Ore pulp distributor, F. W. Sherman, Oysters, hammer and rake for culling, J. W. Russell, Ozonizer for wounds, etc., R. F. W. Smith, Packing box, equable safety, J. A. Keller, Packing, machine for forming ring, O. J. Garlock, Packing sweepers, etc., device for, T. H. Bedell, Padlock for securing coats, etc., to wardrobe hooks, Hulzer & Kemper, (Continued on page 229)