

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.

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.

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.

Engineering Improvements.

SPARKING PLUG.—C. A. MEZGER, Brooklyn, N. Y. This sparking plug is so arranged as to prevent sooty formations within the cylinder of an internal combustion engine from accumulating around the sparking points in such manner as to short-circuit the igniter.

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 cigarette-machine with tobacco.

BURGLAR-ALARM FOR SAFES.—I. J. 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.

XYLOPHONE-PLAYER.—F. R. GOOLMAN, Binghamton, N. Y. The purpose of the invention is to provide a mechanism for playing on xylophones which may be relied upon to perform the functions for which it is intended.

TOOL-HOLDER.—C. F. PRESTON, Chicago, Ill. This tool-holder is especially designed for use in lathes, planers, and other metal-working machines. It is arranged to adjustably hold a cutting tool with an even bearing on the top and bottom to prevent undue vibration and render the tool as solid as an ordinary forged-steel tool.

Railway Contrivances.

PROCESS OF RECONSTRUCTING RAILROAD-RAILS.—V. T. LYNCH, Chicago, Ill. This invention enables the ordinary flanged rail to be cheaply transformed into a grooved rail without taking it up from the tracks.

Vehicles and Their Accessories.

VEHICLE-BODY.—J. E. and C. B. Brown, Bradford, Pa. The invention provides an improved construction for a vehicle-body which

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 tail-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.

COVER FOR TUMBLERS OR OTHER VESSELS.—F. L. JOHNSON, 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 HANDLE.—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. A 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. BXTON, 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, Clinton, Mo. The invention is an improvement in recoil pads for guns, and has for an object to simplify such constructions, to avoid any substantial length of the stock, and to provide a novel arrangement of the filling tube by which the pneumatic pad is filled, as well as to provide a cover for the pad.

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 an arm or bar for carrying a sign or other indicating means for advertising or like purposes.

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 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. 2708.—For manufacturers of motors from 1/2 to 1/2 horse power.

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

Inquiry No. 2709.—For small refrigerating machines for household use.

WATER WHEELS. Alcott & Co., Mt. Holly, N. J.

Inquiry No. 2710.—For dealers in stamped or pressed 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 steel.

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

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 Company, 18 South Canal Street, Chicago.

Inquiry No. 2715.—For machinery for grading road-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 aluminum 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 door 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. 2718.—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 Chamberlain, Bartley, N. J.

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

Send for new and complete catalogue of Scientific and other Books for sale by Munn & Co., 361 Broadway, New York. Free on application.

Inquiry No. 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 Rumney 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-gauge locomotive driven by petroleum 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 glass tubes.

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

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

Inquiry No. 2731.—For dealers in novelties.

Inquiry No. 2732.—For addresses of philatelic 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 wire.

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 aluminum.

Inquiry No. 2741.—For machinery for making horn combs.

Inquiry No. 2742.—For dealers in granulated 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 acetylene 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 machinery.

Inquiry No. 2753.—For manufacturers of marine pipe boilers for 12 inches.

INDEX OF INVENTIONS.

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.]

Table listing various inventions with their corresponding patent numbers. Includes items like Acids, Air brake apparatus, Air conditioning, Bicycle driving mechanism, etc.

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