

RECENTLY PATENTED INVENTIONS.

Agricultural Implements. ATTACHMENT FOR PLANTERS.—M. JOHNSON, Coleman, Texas. The invention comprehends a novel construction of attachment whereby the sweep can be conveniently adjusted for either smooth or rough ground. The construction is also applicable for use on what is known as a "middle burster" and other carriages of similar construction. The machine, therefore, comprises several useful implements in one, thereby making it more economical to utilize a planter equipped with this attachment than by using the separate machines.

Apparatus for Special Purposes. LOG OR FREIGHT DUMPING APPARATUS.—T. ALEXANDER, Brookhaven, Miss. The chief feature of this apparatus is a pivoted and automatically tiltable frame on which the log strikes and by which it is arrested and then discharged into a suitable receptacle. The frame automatically assumes its normal inclined position immediately following such discharge. Suitable adjustments are provided for different lateral inclinations.

COMBUSTION APPARATUS FOR STEAM BOILERS.—J. R. FRASER, Dayton, Ohio. In the ordinary furnace attachment for steam boilers, all the products of combustion are allowed to escape into the atmosphere. Mr. Fraser has devised an improved apparatus in which the gaseous products of combustion are directed under pressure into the water in the boiler, whereby their heat is utilized in the development of steam.

Electrical Apparatus. AUTOMATIC CUT-OUT.—G. E. ANDREWS, Providence, R. I. The invention relates to automatic cut-outs, more particularly of the type used in connection with fuse wires. The main purpose of the invention is, first, to short-circuit the mains, and second, if the voltage is high enough, to leave the mains open. The apparatus is preferably located at the point where the wires enter the building and may be used on any circuit of constant potentials.

ELECTRICALLY OPERATED VALVE-GATE.—A. ORR, Gloversville, N. Y. The improvement relates more particularly to an appliance for opening and closing the so-called "auxiliary valve" generally used in connection with a large main valve. It comprises a valve-stem for operating a valve, and a motor mechanism for actuating this valve-stem, the motor mechanism being provided with an arm which is engaged by a lever normally restraining this motor mechanism. Means controllable at will are also provided for actuating this lever to cause it to momentarily disengage the arm.

ELECTRICAL FLOOR-KEY.—E. C. GOODRICH, Houghton, Mich. The particular object of this invention is to provide an electrical floor key which will obviate unnecessary mutilation of the floor and also prevent the danger of breaking the electrical connections and overturning the table on which are supported the devices to which the electrical connections lead.

Hardware.

WRENCH.—C. J. BARNES, Liverpool, N. Y. Mr. Barnes provides a simple, compact implement adapted to afford a double grip on the work, which will hold itself firmly in engagement with the work against any tendency to slip thereon. The parts may be easily and quickly released preliminary to taking a fresh hold on the object, and will firmly engage with round work of different sizes.

Machines and Mechanical Devices.

MUSIC-LEAF TURNER.—G. E. ADAMS, Glens Falls, N. Y. The device provides a means whereby the leaves of music may be fixed in position to a series of music-carrying arms and held in position after turning until the arms are purposely released, which is accomplished by simply touching the device with the finger. The arms when released from the retaining device will automatically assume a position at the opposite side of the frame, thus turning the leaves with which they are respectively connected.

MACHINE FOR APPLYING COATINGS.—J. B. MCKEOWN, Union Hill, N. J. The invention relates to machines used in the manufacture of mirrors and other articles requiring a coating. It provides a new and improved machine for applying amalgam or other coating material to glass or other surfaces in a very effective and uniform manner and without the employment of skilled labor.

SHOE-LINING TRIMMER.—C. B. CORWIN, Jefferson City, Mo. Mr. Corwin has invented a new machine which is intended to do certain

work relating to the trimmings of shoe-linings, this work having been heretofore done by hand. It has been found that the machine will do excellent cutting even with a comparatively dull cutter, provided the same be given a suitable speed. The cutter may be easily detached for the purpose of grinding.

MACHINERY FOR MAKING SLABS WITH PLAIN OR ORNAMENTAL SURFACES OF PLASTIC CEMENT OR COMPOSITION.—G. B. HALL, "Valkyrie," Colney Hatch Lane, Muswell Hill, London, Eng. The invention provides an improved apparatus for making molded slabs of cement or other quick-setting composition for construction of walls, ceilings, roofs, etc., the plastic material being delivered in a continuous stream to a continuous series of molds formed by an endless traveling apron, traveling side fences, and cross division bars.

PLAITING-MACHINE.—M. F. KOCH, New York, N. Y. Mr. Koch is the inventor of improvements in machines for accordion and side plaiting fabrics. The construction of the machine is such, that by its means the successive plaits may be rapidly and evenly formed and pressed.

VARIABLE-SPEED GEAR.—H. F. NORTHROP, New York, N. Y. This variable-speed gear is particularly adapted for use in connection with automobiles. The construction is simple and may be produced at a small cost as compared with speed gear embodying toothed wheels or friction clutches. The device also operates without the shock in starting and stopping incident to meshing gears.

Railway Improvements.

LOADING DEVICE FOR LOCOMOTIVES.—G. HOFFMAN, Fontanet, Ind. The invention provides an efficient means for transferring coal from any elevated storage place to the tender of a locomotive. A movable bin or carrier is mounted upon the upper end of a tilting frame fulcrumed on its lower end and adapted to receive its charge of coal and then to swing forwardly and downwardly to discharge its load into the tender. The invention comprises various features of construction whereby the movements of the carrier and its contents are regulated.

Miscellaneous Inventions.

BOX-FASTENER.—WILLIAM JORDAN, Winona, Minn. The fastening is particularly adapted for securing covers of boxes or crates, especially such as are particularly adapted for the packing of beer in bottles. The invention provides a novel cover which closes the box.

CLOTHES-DRAINER.—HARRIET BLENKERN, Minneapolis, Minn. The drainer is especially adapted for use on wash-boilers for the purpose of draining the clothes saturated with hot water, thus obviating wetting of the floor. The water is effectually drained from the clothes.

PHOTOGRAPHIC CAMERA.—HENRY W. HALES, Ridgewood, N. J. Mr. Hales' camera is of the type having a movable mirror in front of the sensitized plate to reflect the image onto a ground-glass arranged in the top of the camera. In the usual cameras of this type leakage of light frequently occurs. It is impossible to obtain the desired shutter-speed for instantaneous work, because the air within the camera-casing retards the movement of the shutter. In cameras having a lever mechanism to move the mirror and a focal-plane shutter to uncover the sensitized plate or film, it is essential that the lever mechanism shall finish its movement before the shutter starts. Consequently such a camera is untrustworthy. In Mr. Hales' camera these defects are overcome. All leakage of light is prevented; the speed of the shutter is regulated, and the action of the various parts is positive and quick.

COMBINED SASH-FASTENER AND SHADE-SUPPORT.—EDWARD A. SACKET, Denver, Col. The window-sash attachment has vertical rods connected with the sliding upper sash, which rods pass through clamps on the slidable lower sash. Mr. Sacket has so constructed and combined the various parts of his invention that the rods are adapted for convenient attachment to and detachment from the sockets and clamps applied to the respective sashes. Hence the rods are adapted for receiving and supporting a window-shade roll, which is probably a new feature in inventions of this class.

ICE-SANDAL FOR FLAT HORSESHOES.—ISRAEL G. HOWELL, Hopewell, N. J. This sandal for icy roads is adapted to rest on the underside of a horseshoe, and is provided with points and heels. Bolts secure the sandal to the shoe at about the quarters, a flange on the toe of the sandal engaging a recess on the edge of the toe. The sandal, as will be seen, is detachable and gives the animal a firm foothold on slippery roads.

HORSESHOE.—FRED. SHEELY, Fleischmanns, N. Y. Mr. Sheely provides his horseshoe with calks that can be easily and quickly detached, so that sharp calks can be used for winter weather to prevent the horse from slipping on the ice or frozen ground. Flat-faced calks can be applied to the shoe for summer use.

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.

Marine Iron Works. Chicago. Catalogue free.

Inquiry No. 3115.—For manufacturers or dealers in wire netting.

AUTOS.—Duryea Power Co., Reading, Pa.

Inquiry No. 3116.—For a machine for shelling peas by hand power.

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

Inquiry No. 3117.—For dealers and manufacturers of asbestos goods.

Sawmill machinery and outfits manufactured by the Lane Mfg. Co., Box 13, Montpelier, Vt.

Inquiry No. 3118.—For manufacturers or dealers in machines for manufacturing indurated fiber wire from wood pulp.

Sheet metal, any kind, cut, formed, any shape. Prompt work. Metal Stamping Co. Niagara Falls, N. Y.

Inquiry No. 3119.—For manufacturers of sugar grinding mills.

Die work, experimental work and novelties manufactured. American Hardware Mfg. Co., Ottawa, Ill.

Inquiry No. 3120.—For manufacturers or dealers in rubber novelties, such as balloons, rubber balls, etc.

Machinery designed and constructed. Gear cutting. The Garvin Machine Co., 149 Varick, cor. Spring Sts., N. Y.

Inquiry No. 3121.—For an electro-plating outfit.

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

Inquiry No. 3122.—For machinery for making tin fruit and jam cans.

IDEAS DEVELOPED.—Designing, draughting machine work for inventors and others. Charles E. Hadley, 584 Hudson Street, New York.

Inquiry No. 3123.—For manufacturers of double-action water pumps.

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

Inquiry No. 3124.—For manufacturers of incandescent gasoline lamps.

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. 3125.—For manufacturers of cook stoves using coal oil or gasoline as fuel.

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. 3126.—For manufacturers of self-heating flat irons.

The best book for electricians and beginners in electricity is "Experimental Science," by Geo. M. Hopkins. By mail, \$1. Munn & Co., publishers, 361 Broadway, N. Y.

Inquiry No. 3127.—For manufacturers of engines of about 100 horse power using oil as fuel.

FOREMAN BOILER MAKER WANTED.—First class man wanted for a modern shop building marine and stationary boilers, and doing boiler and iron ship repairs. Applicants will please state age, experience, nationality, and give names of previous employers. This is a good position for a good man. Address P. O. Box, 285, Boston.

Inquiry No. 3128.—For manufacturers of the Columbia zither.

WANTED.—Engineer to plan and superintend the erection of additions to our manufacturing plant, which we are making from time to time, the arrangement and erection of machinery, shafting, power plant, heating apparatus, etc. Permanent position. State age, experience, references and salary wanted. Address The Ohio Brass Company, Mansfield, Ohio.

Inquiry No. 3129.—For manufacturers of soft sheet rubber.

Let me sell your patent. I have buyers waiting. Charles A. Scott, Granite Bldg., Rochester, N. Y.

Inquiry No. 3130.—For manufacturers of collar buttons.

Inquiry No. 3131.—For manufacturers of the small hand mirror with puzzle on back.

Inquiry No. 3132.—For a plant for the manufacture of steel freight cars.

Inquiry No. 3133.—For manufacturers of wooden hand rakes.

Inquiry No. 3134.—For dealers in dried herbs and roots.

Inquiry No. 3135.—For manufacturers of a machine for winding telephone magnet coils.

Inquiry No. 3136.—For machines for cutting straw for bushel baskets.

Inquiry No. 3137.—For manufacturers of laundry machinery.

Inquiry No. 3138.—For manufacturers of stamped goods of German silver, or some white metal less expensive than aluminum.

Inquiry No. 3139.—For manufacturers of six-penny sticks of weldaluminum, patented by Power & Webster, said to be manufactured by W. W. Armstrong.

Inquiry No. 3140.—For manufacturers of heads and handles for feather dusters.

Inquiry No. 3141.—For manufacturers of a machine for assorting bristle hair.

Inquiry No. 3142.—For manufacturers of a machine for separating natural gas from water.

Inquiry No. 3143.—For manufacturers of chuck awls.

Inquiry No. 3144.—For manufacturers of light, portable printing presses.

Inquiry No. 3145.—For manufacturers of track velocipedes for railroad inspection.

Inquiry No. 3146.—For a machine for darning stockings.

Inquiry No. 3147.—For manufacturers of acetylene gas engines.

Inquiry No. 3148.—For manufacturers of patented novelties for mail order business.

Inquiry No. 3149.—For a machine for sawing and splitting wood for cooking stoves.

Inquiry No. 3150.—For manufacturers of small tin cans for retaining liquids.

Inquiry No. 3151.—For manufacturers of telegraph insulators.

Inquiry No. 3152.—For manufacturers of machinery for cutting excelsior.

Inquiry No. 3153.—For manufacturers of portable houses.

Inquiry No. 3154.—For manufacturers of broom-making machinery.

Inquiry No. 3155.—For manufacturers of the Peerless Traction Agricultural Implement.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending September 2, 1902, AND EACH BEARING THAT DATE.

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

Table listing various inventions and their patent numbers, including items like 'Abdominal and back supporter', 'Aerating agitator', 'Agitator', 'Alarm', 'Ash pan', 'Auger', 'Automatic gate', 'Axle', 'Back pedaling brake', 'Baling press', 'Barrel head fastening', 'Bat and explosive ball', 'Bearing roller', 'Bed frame', 'Bed, invalid', 'Bed pan cover', 'Belt, leather', 'Bicycle brake', 'Bicycle cushion frame', 'Bicycle saddle post', 'Blank threading machine', 'Blanket guard', 'Blast furnace', 'Blinds apparatus', 'Book', 'Boat fender', 'Bolt and fastener', 'Bookbinding', 'Book for holding and filling sales slips', 'Books, device for fastening loose leaf', 'Boring machine', 'Bottle capping machine', 'Bottle, non-refillable', 'Bottle, non-refillable, J. 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