

RECENTLY PATENTED INVENTIONS.

Bicycles.

STAND FOR BICYCLES.—FREDERIK C. V. ARP and SÖREN C. JENSEN, Blegdamsvej 8, Copenhagen, Denmark.

Railway Appliances.

LOCOMOTIVE-BOILER.—JOHN J. REGAN, Jersey City, N. J. The steam-boiler comprises an external shell and an internal shell disposed longitudinally therein and eccentrically thereto.

ELECTRIC SHIFTING DEVICE FOR RAILWAYS.—HENRY S. ESCH, Manhattan, New York city. The device is designed for use on trolley lines in connection with an improvement for an automatic track-switch which Mr. Esch has invented.

RAIL-JOINT.—JOHN C. FURMAN, Strattanville, Pa. The invention relates to means for coupling together the continuous ends of rails in such a manner as to provide a strong, solid joint, which can be laid either upon the ties and spiked thereto, or placed between the ties without spikes.

SWITCH.—JOHN C. FLINT and MAURICE S. DEAN, Anaconda, Mont. It is a primary purpose of this invention to lengthen the life of a switch-point and to prevent the wheels climbing the switch-point when a switch is located on a curve.

AUTOMATIC TRACK-SWITCH FOR ELECTRIC RAILWAYS.—HENRY S. ESCH, Manhattan, New York city. This improved switch is completely under the control of the motor-man to enable him to run the car in the desired direction.

Metallurgical Improvements.

ORE-CONCENTRATOR.—RICHARD R. LEE, Pinos Altos, New Mexico. A circular pan is provided with a central revolving vertical shaft bearing radial arms which carry scrubbing-brushes that travel upon the bottom of the pan.

APPARATUS FOR TREATING GOLD ORES.—VINCENTE PAZOS Y SACIO, Yauli, Tuctu, Peru. The apparatus comprises a receptacle for holding the mercury and the ores; an electrolytic vessel adjacent to the receptacle and communicating therewith; and a porous cup located in the vessel.

APPARATUS FOR EXTRACTING GOLD AND CONCENTRATING ORES AND METALS.—WILLIAM F. HEATHMAN, Santa Ana, Cal. The object of the invention is to concentrate ores, metals, and gold-bearing sands of every character, with the result that the product of such concentration may be reduced to a small but valuable compass.

vention is based upon the well-known principle of physics that the times occupied by different bodies or substances in falling through water are dependent upon their relative specific gravities and that a body of greater density will acquire a corresponding velocity.

Printers' Appliances.

GAS-CONDUCTING DEVICE FOR LINO-TYPE MELTING-POTS.—GEORGE H. MESSEBOLE, Brooklyn, New York city. In order to dispense with the use of rubber hose to supply gas to the burner of the melting-pot, the inventor employs metal piping so connected with the melting-pot as not to interfere in the slightest degree with the movement of the pot to and from the mold-wheel.

CASTING-BOX.—LEO GROSSMAN, Brooklyn, New York city. The object of Mr. Grossman is to provide a casting-box arranged to permit the casting of a number of stereotypes at the same time, so that a large number are produced quickly by the same machine.

Traps.

BAIT-GUN.—OLIVER J. DE ROSHEY, Iron Mountain, Mich. The gun is intended to kill wolves. The construction is such that a cartridge is placed in the barrel and held in position by means of a breech-block carrying a needle.

ANIMAL-TRAP.—EDWARD MILLS, Jacksonville, Ill. The trap is designed to catch animals of any kind. In construction it comprises a cage, a door tending to close, and a peculiarly-arranged device normally holding the door in open position and released by the animal to permit the closure of the door.

Mechanical Devices.

CIGAR-TUCK CRIMPER.—JOHN HAINES, Manhattan, New York city. The lighting end of cigars of a certain class and workmanship have been manually crimped or tucked to distinguish them from others, and more effectually to combine the parts at the end to be lighted.

DEVICE FOR REMOVING BURRS FROM WOOL.—LEOPOLD OFFERMANN, Lepsic, Germany. The device comprises a burr-removing roller having a series of spaced, toothed rings, between which are arranged bars similar to grate bars and depressed relatively to the teeth at those points where the wool is taken off from a feeding roller.

Tools and Hardware.

DEVICE FOR FASTENING METAL OR WOODWORK TO STONE.—THOMAS E. HICKS, Bronx, New York city. Mr. Hicks has provided means for securely connecting various articles made of wood or metal to stone-work. Devices of this class are frequently called "expansion bolts."

CLOTHES-LINE PULLER.—GEORGE W. DIEPOLD, Long Island City, Queens, New York city. The pulley comprises a single piece of wire which is run through the longitudinal opening of a cylindrical handle, and the ends twisted together in such a manner as to form a hook and a fork to engage the line.

DREDGING UTENSIL.—JONATHAN DUNGAN, Prospect Park, Pa. The invention relates to a class of utensils employed for dredging all kinds of granular, ground, or powdered substances—such as salt, pepper, spices, sugar, flour or the like.

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 them. In every case it is necessary to give the number of the inquiry.

MUNN & CO.

Marine Iron Works, Chicago. Catalogue free. Inquiry No. 1908.—For manufacturers of all kinds of heating and lighting devices. For hoisting engines. J. S. Mundy, Newark, N. J.

Inquiry No. 1909.—For manufacturers of machinery used in cement works. "U. S." Metal Polish. Indianapolis. Samples free. Inquiry No. 1910.—For manufacturers of broom-making machinery.

Inquiry No. 1911.—For manufacturers of heating furnaces. Stencil Machines.—A. J. Bradley, 101 Beekman St. N. Y. Inquiry No. 1912.—For a gas, electric or gasoline generator of about 1/2 horse power.

Inquiry No. 1913.—For manufacturers of electric motors for attaching to ordinary sewing machine stands. Glass paper-weights for advertising. Write for prices. Lobmiller Co., Wellsburg, W. Va.

Inquiry No. 1914.—For manufacturers of dynamos. Sawmill machinery and outfits manufactured by the Lane Mfg. Co., Box 13, Montpelier, Vt.

Inquiry No. 1915.—For manufacturers of a machine for making bricks out of sand by pressure. Rigs that run. Hydrocarbon system. Write St. Louis Motor Carriage Co., St. Louis, Mo.

Inquiry No. 1916.—For the present address of the Cryderman Coupling Co. For sheet metal stampings and novelties try Standard Stamping Co., Seventh and Hudson, Buffalo, N. Y.

Inquiry No. 1917.—For brass balls for valves 1 inch and more. Ten days' trial given on Daus' Tip Top Duplicator. Felix Daus Duplicator Co., 5 Hanover St., N. Y. city.

Inquiry No. 1918.—For manufacturers of hand laundry machinery. Are you looking for anything in bent woodwork? Write Tucker Bicycle Woodwork Co., Urbana, Ohio.

Inquiry No. 1939.—For traction engines for hauling 40 tons of material over roads of not more than 5 per cent. grade, at 6 miles per hour. Inquiry No. 1940.—For makers of carpet and rug looms.

INDEX OF INVENTIONS

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

January 14, 1902, AND EACH BEARING THAT DATE.

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

Table listing various inventions and their corresponding patent numbers, such as 'Air currents, apparatus for measuring, J. Thompson 691,082', 'Alarm. See Burglar alarm.', 'Animal trap, E. L. Tschantre 691,301'.



