

RECENTLY PATENTED INVENTIONS.

Agricultural Implements.

WHEEL-HARROW.—MILLARD F. POTTER and HENRY J. MINAR, Austin, Minn. The invention is a harrow of that type in which the harrow frame is made in sections, the two side sections of which are hinged, so as to be turned up on each side into a vertical position to facilitate transportation and to avoid stumps, stones, or other obstructions.

PACKING ATTACHMENT FOR GANG-PLOWS.—DAVID E. TOWLE, Park River, N. D. This packing attachment consists of a frame, in which a wheel is mounted to turn. The rim of the wheel is inclined, is provided with recesses in its side edges, and is solid between opposite recesses.

Engineering-Improvements.

ROTARY ENGINE.—WILLIAM W. WATKINS, Yuma, Arizona Territory. The engine comprises a rotary wheel having peripheral cups. Steam is admitted to the casing and discharged upon the wheel by means of a pipe having two branches extending around the wheel.

ROTARY ENGINE.—JOHN J. ANTHONY, Moscow, Idaho. This engine is provided with a cylinder in which are a number of sliding abutments. On the cylinder-heads are chests. The rotary piston is provided with a number of piston-heads and is mounted to rotate in the cylinder, and is arranged to admit steam to the cylinder from both chests at the same time, into separate compartments of the cylinder.

AUTOMATIC CYLINDER-COCK.—LOUIS M. MORROW, Wasco, Ore. The invention provides a new cock designed for use on steam-engine cylinders and arranged automatically to open in order to discharge the water of condensation to prevent blowing out of the cylinder-head or bending of the piston-rod, at the time the engine is started, should the engineer fail to open the usual cylinder-cocks.

VALVE.—TIMOTHY S. MARTIN, Butte, Mont. The object of the invention is to provide a simple mechanism for simultaneously operating a number of valves, closing one or more of them, while the others are opened and vice versa. The mechanism is applicable to valves controlling the admission of steam or water to radiators.

Mechanical Devices.

BOTTLE-WASHER.—EDMUND S. PURDY and JESSIE W. WASHBURN, Portage, Wis. This machine comprises a rotating tank having ports in its sides. Shot-carrying pockets are arranged in the tanks, which pockets have outward openings. Plates are movable on the outer side of the tank and have ports designed to be placed in communication with the perforated shot-pockets.

ELEVATOR.—PETER S. EBBERT, Manhattan, New York city. In large stores, goods sold in the several departments and intended to be delivered to the customers, are generally sent to the top floor to be distributed among the wagons.

GRUBBING-MACHINE.—GEORGE R. MCCHESENEY, Manhattan, New York city. The lever of the grubbing machine is provided with a strengthening-strap attached to its front end. A saddle-plate is saddled on the front end of the lever, and has its ends engaged with the strengthening-strap.

COMBINATION-LOCK.—NIELS P. NIELSEN and JUNIUS L. MURPHY, Denver, Colo. The object of the invention is to provide an improved lock designed for use on bicycles and other machines, and arranged to protect the owner of the article from theft, both by locking a movable part and by rendering the removal of the entire lock impossible, without leaving traces on the article.

Miscellaneous Inventions.

ANIMAL-YOKE.—GEORGE LANG, Billings, Oklahoma Territory. The yoke is provided with extensions which are designed to be entangled with or brought in contact with a fence whenever the animal attempts to cross the fence.

RAM.—GEORGE A. and THOMAS F. PENROSE, Merdith, Ark. The ram is intended to enable workmen conveniently to shift a rail longitudinally toward or from an adjacent rail. The ram comprises a clamp adapted to be fastened to one of the parts to be operated on.

BRUSH.—JULIUS C. LÜDKE, Racine, Wis. The brush is made for the reception of soap and for the supply of a soap solution to the bristles. Hitherto the suds were allowed to run directly through the brush, so that the bristles were loosened.

AWNING.—LOUIS WOLF, Manhattan, New York city. The object of the invention is to provide an awning which can be easily manipulated, which is arranged to permit perfect ventilation, and which permits the head and main awning to be securely bound in closed position to render them storm-proof.

WIRE-DRAWING MACHINE.—MORITZ VON WATZESCH, Oberschoenweide, Prussia, Germany. The invention is a wire-drawing machine in which a vertical shaft driven from some source transmits its revolution to the wire-drum above, on which the wire drawn is to be wound.

ROTARY AMALGAMATOR.—ALFONSO Z. BALDNERO, Mexico, Mexico. After escaping through the bottom of a channel, the material is spread upon a table, owing to the rotation of which, it runs down in spiral lines. During this travel it is subjected to the action of streams of water delivered from various nozzles, and also to the action of mercury.

RUNNING-GEAR FOR VEHICLES.—TURNER BYRD, St. Louis, Mo. The axles of this vehicle are so constructed that the ground-wheels can be firmly secured in place and that the axles, when connected with their beds, will have extended bearings and will turn with little friction.

CONVERTIBLE HANDLE AND STRAP.—ALFRED W. FURNIVALL, Astoria, Queens, New York city. The device comprises a strap designed to be folded upon itself and provided with clamping means at the ends of each fold, whereby the folds can be secured together.

FORMER FOR GUTTER-HANGERS.—JAMES E. HYNES, Hannibal, Mo. The object of the invention is to provide a former for wire hangers, whereby a piece of wire can be quickly formed into the desired shape to produce a strong and durable hanger very cheaply.

HAIR-CLAMP.—WILLIAM J. KOENIG, Manhattan, New York city. The purpose of the invention is to provide a clamp which can be applied to braided hair so as to prevent the loosening of the braid.

ACETYLENE-GAS LAMP.—WILLIAM F. GOELTZ, WILLIAM M. GILBERT and JOHN FRANK, Waterbury, Conn. By moving the body-cup upward with relation to the water-fount, a water valve is moved off its seat.

RADIATOR.—JOHN F. THOMSON, Manhattan, New York city. The design combines an auxiliary heating apparatus with a radiator of novel construction in order to obtain a greater heat-radiating capacity.

HANDLE FOR SPOONS, FORKS, AND SIMILAR ARTICLES.—JOSEPH SMITH, Taunton, Mass. Six patents have been granted to this designer for handles to be used on forks, spoons, knives, and the like. The designs are all noteworthy for the artistic taste displayed.

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.

Marine Iron Works. Chicago. Catalogue free. "U. S." Metal Polish. Indianapolis. Samples free. Yankee Notions. Waterbury Button Co., Waterbury, Ct. Ferracute Machine Co., Bridgeport, N. J., U. S. A. Full line of Presses, Dies, and other Sheet Metal Machinery.

Notes & Queries

HINTS TO CORRESPONDENTS.

Names and Address must accompany all letters, or no attention will be paid thereto. This is for our information and not for publication. References to former articles or answers should give date of paper and page or number of question.

(7898) H. G. D. writes: Having need of several small glass disks of a uniform diameter, I find the lathe much more expedient in cutting them than the method by hand.

(7899) J. W. E. asks: 1. What in your opinion causes stripping or peeling of nickel plating? A. The usual causes are too strong a current, too acid a bath, or insufficient cleaning and pickling.

NEW BOOKS, ETC.

AMES ON FORGERY. Its Detection and Illustration. With Numerous Causes Celebrés. By Daniel T. Ames. San Francisco and New York: Published by the author. 1900. 8vo. Pp. 298. Sheep. Price \$2.

This is the most entertaining law book we ever remembered to have seen. The author is a specialist, a well-known handwriting expert who has had over 1,200 cases come under his cognizance.

DIE MODERNE CHEMIE. Eine Schilderung der chemischen Grossindustrie. Von Dr. Wilhelm Bersch. Parts 26-30. Vienna: A. Hartleben. 1900. Price per part, 70 cents.

With Part 30, Dr. Bersch's undertaking is ended. Reviewing the work as a whole, it cannot be denied that it embodies a clear, popular description of the most important chemical processes which are now used.

VON LOEBELL'S JAHRESBERICHTE UEBER DIE VERAENDERUNGEN UND FORTSCHRITTE IM MILITAERWESEN. XXVI. Jahrgang: 1899. Herausgegeben von v. Pelet-Narbonne, Generalleutnant z. d. Berlin: Ernst Siegfried Mittler und Sohn. 1900. Octavo. Pp. 573. Price, paper, \$4.

The Twenty-sixth volume of Von Loebell's "Jahresberichte" discusses the development of military science in the year 1899. The first part is devoted to a treatment of the changes made during the past year in the various armies of the world and includes a description of the South American forces, which, hitherto, found no place in the "Jahresberichte."

TO INVENTORS.

An experience of fifty years, and the preparation of more than one hundred thousand applications for patents at home and abroad, enable us to understand the laws and practice on both continents, and to possess unequalled facilities for procuring patents everywhere.

INDEX OF INVENTIONS

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

MAY 29, 1900,

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 Advertising city directory, Aerating liquids apparatus, Air brake mechanism, etc.

(Continued on page 365.)