

RECENTLY PATENTED INVENTIONS.

Electrical Devices.

ALARM FOR WATER-CONTAINING VESSELS.—J. O'CONNOR and C. A. TURNER, New York, N. Y. In this patent the invention relates to devices for giving an alarm when the water in a boiler or other vessel rises or falls beyond desired levels and also to control the inlet of water when this liquid becomes low, an object being to provide a device that shall be simple and compact in construction and positive in its action.

PRIMARY BATTERY.—J. A. PEDRAZZI, Carmel, Cal. This inventor's improvement is in the nature of a new primary battery designed for both closed and open circuit work and applicable for all the uses for which a galvanic battery is employed. It may be used for electroplating, telegraphy, telephones, fire-alarms, burglar-alarms, toys, bells, electric motors, for therapeutic and surgical uses, or for electric lights in places isolated from the wires of a power plant.

Engineering Improvements.

AUTOMATIC COUPLING FOR SECTIONAL PUMP-RODS.—T. COSTELLO, JR., and V. B. POST, Spencerville, Ohio. The inventors in this improvement have for an object the provision of a sectional pump-rod or other sectional shaft or rod with a simple novel coupling device for joining together the adjacent ends of the rod sections, which may be automatically connected by laterally pressing together the two complementary portions of the coupling device and may be readily disconnected without undue labor.

ROTARY ENGINE.—T. E. E. BARTLETT, Meridian, Miss. In Mr. Bartlett's patent the invention has reference to improvements in rotary engines; and the object that he has in view is to produce a simple, compact, and durable construction which is packed to reduce the leakage of the motive fluid and which is very efficient in operation.

ROTARY ENGINE.—R. L. BARNHART, Charleroi, Pa. This invention has particular application to a novel form of motor, designed to be driven by air, gas, steam, or similar expansive fluid, and is an improvement on a prior patent granted to Mr. Barnhart. The inventor forms the mechanism in two sections, an upper and a lower motor section, rigidly connected by a shaft, and connects the sections by a pipe or tube, and provides such sections with inlet and exhaust valves, the primary object being to obtain a maximum amount of pressure in each motor so that they will be driven in the same direction by the pressure being conducted from the upper to the lower motor-section, or vice versa. The parts are arranged to greatly muffle the sound of the operation of the engine.

BALANCED SLIDE-VALVE.—B. W. SCHNEBECK, Bolinger, La. The improvement comprises the combination with a pressure-plate and valve provided with an annular groove of an intermediate ring provided at opposite sides of its base with vertical side walls and having inwardly-sloping surfaces above the said side walls, and inner and outer split rings provided with sloping faces coinciding with those of the intermediate ring and arranged for operation thereby.

MARINE PROPELLER.—C. A. MANKER, Pearl, Ill. It is the aim of Mr. Manker's invention to provide an improvement in that class of propellers in which feathering blades are employed—that is to say, blades adapted to assume varying angles to the mobile fluid as they revolve. The propeller is primarily intended for use in marine propulsion, but it may be employed in aerial navigation under certain conditions.

Hardware.

COMPOUND TOOL.—J. F. WATERMOLEN, Greenbay, Wis. In carrying out this improvement the inventor has particularly in view as an object the formation of the main body portion or handle of the tool in such manner that the parts of the body portions may be easily and quickly assembled and to provide a simple, neat, and positively supporting or bearing frame for the tool-blades or tools proper.

WRENCH.—W. E. SEANOR, Hope, Idaho. The purpose in this invention is to provide a wrench in which the movable jaw can be expeditiously and conveniently adjusted upon the shank of the wrench to and from the fixed jaw and as conveniently and rapidly locked in adjustment position against all strain to which the movable jaw may be subjected.

Machines and Mechanical Devices.

MIXING DEVICE.—W. S. STANDISH, East Las Vegas, New Mex. In carrying out the present invention Mr. Standish has particularly in view the provision of means combined with the main portion of the apparatus for supporting and holding the weight of a cylinder or cask and the contents thereof, while at the same time permitting the use within the cask of a hollow shaft carrying beater-blades and a steam pipe used in the mill.

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NEW BOOKS, ETC.

THE COMPLETE LAW IN NATURE UNVEILED. By F. Warner Jones, C.E. London: Knowledge Office. 1903. 18mo. Pp. 32. Price 60 cents.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending November 10, 1903,

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 and making same, methylene hippuric', 'Acid, anthraquinone alpha sulfonic', 'Acids, apparatus for making mixtures of nitric and sulfuric', etc.

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