

RECENTLY PATENTED INVENTIONS.

Electrical.

BATTERY.—Frank M. Bell, New York City. This invention provides a primary battery with low internal resistance and high voltage and amperage, and in which the negative plate may be recharged when exhausted.

ELECTRIC CONDUCTOR.—Gorham Gray, Boston, Mass. This conductor is of metal formed with longitudinal and transverse grooves, leaving a core of hard metal and projections of softer metal.

Mechanical.

WOOD TURNING MACHINE.—William T. Jones, New Westminster, Canada. This invention is for a machine for turning fish net floats, providing for sawing the proper length of wood from the strip and then automatically forcing it into position for turning.

PRINTING PRESS DELIVERY ATTACHMENT.—Mark N. Cormack, New York City. This invention provides an attachment for web printing presses, designed to deliver a folded sheet free from the smut or smear occasioned by the contact of the freshly printed sheet with the folder and delivery surface.

ENDLESS BAND.—Leedham Binns, Philadelphia, Pa. This is an improvement on a formerly patented invention of the same inventor, providing a band for use as a driving belt for mill spindles, the band being very durable and strong and having its terminal portions united in such manner as to render the band of approximately uniform thickness throughout.

MOTOR FOR VEHICLES.—James M. Trotter, Alma, Cal. This invention provides a motor designed for auxiliary propulsion, arranged to form a brake and to accumulate power during the travel of a drawn or propelled car, wagon or other vehicle on a down grade, and to utilize this power for propelling purposes when going up hill, etc.

WELL DRILLING MACHINE.—Francis R. Yearlan, Rindard, Ill. This is a machine of comparatively light construction, adapting it to be conveniently moved from place to place on wheels, and in which considerable power may be economically obtained.

Miscellaneous.

AERIAL MACHINE.—Jacob D. Graybill, New Orleans, La. This machine comprises a gas holder and a car located within the framework of the gas holder, while an air or vacuum chamber protects the car from gas on the front, back and top.

MACHINE FOR MEASURING CLOTH, PAPER, ETC.—George W. Hyde, Richfield Springs, N. Y. This machine is designed to conveniently unwind a desired length of material from an original roll and wind up the measured length into a roll for the customer.

GRAPHOSCOPE.—Laurance H. Cohen, New York City. In this graphoscope the pictures may be viewed either in panoramic form or singly, the invention providing means for quickly placing in position rollers to which may be attached the tape, sheet or belt carrying the pictures.

JOURNAL BEARING FOR TRUCKS.—

John E. Rogers, Dendron, Va. This is a box or bearing for small trucks, and especially for dry kiln trucks, consisting of a body or face plate and cylindrical box projecting laterally therefrom, with its outer end closed.

CAN SOLDERING MACHINE.—Theodore L. Phelps, Brewster, N. Y. This machine has a table turning on a column, a number of mandrels moving with the table, a fixed table also carried by the column and two soldering irons held by the fixed table.

VEHICLE SHAFT.—Francois D. Bernier, Paris, France. In draught poles for vehicles, this invention is designed to diminish the liability to breakage in case the horse should fall, to this end employing a joint of novel construction, located on the tongue between the eye which receives the end of the holdback strap and the iron to which is secured the back strap of the harness.

FOLDING BATH AND WASH TUB.—Hermand J. Gies, Peterborough, N. H. This is a combination device of simple and durable construction, taking up but little space when folded and not in use, and which may be readily converted into a wash tub or bath tub, as desired.

KEY GUARD.—Addison J. Lyon, Mount Vernon, N. Y. According to this invention a spring-controlled stop is carried by a support on one side of the keyhole to normally extend across the keyhole, the stop being movable at right angles to swing away from the keyhole and admit of the insertion of a key.

DUMB WAITER SAFETY CLUTCH.—Charles B. Cox, New York City. To securely hold the cage in place in case of the breaking of the supporting rope or cable, this invention provides for a vertical rod fixed in the shaft, a casing secured on the cage being formed with a guideway for the rod, while a clamping device journaled in the casing is adapted to engage the rod and clamp it to the casing.

BANJO BELL.—Albert H. Jarvis and William J. McLean, New York City. A shallow bell formed of resonant material, according to this invention, is adapted to be placed between the head of the banjo and the continuation of the neck. The bell is placed beneath the bridge of the banjo and has a comparatively large opening in its small end, or it may also have the annular section forming the sides of the bell perforated to assist in the emission of the sound waves.

NOTE.—Copies of any of the above patents will be furnished by Munn & Co. for 10 cents each. Please send name of the patentee, title of invention, and date of this paper.

NEW BOOKS, ETC.

HOURS WITH THE GHOSTS; OR, NINETEENTH CENTURY WITCHCRAFT. Illustrated investigations into the phenomena of spiritualism and theosophy. By Henry Ridgely Evans. Chicago: Laird & Lee. 1897. Pp. 297. Price \$1.

The present work is by the author of the introduction to our book, "Magic: Stage Illusions and Scientific Diversions, Including Trick Photography." It is an admirable expose of the devices of the pretended mediums and charlatans, with fullest evidence furnished as to their trickery. There has been a large number of works published upon this subject, but most of them have been trifling, catchpenny affairs.

Business and Personal.

The charge for insertion under this head is One Dollar a line for each insertion; about equal words to a line. Advertisements must be received at publication office as early as Thursday morning to appear in the following week's issue.

Marine Iron Works. Chicago. Catalogue free. "U. S." Metal Polish. Indianapolis. Samples free. Yankee Notions. Waterbury Button Co., Waterbury, Ct. Durable Fence Post on royalty or State rights for sale.

Patents relating to Electric Motor Carriages for sale, \$15,000. A. Berthier, Confignon, near Geneva, Switzerland. The celebrated "Hornsby-Akroyd" Patent Safety Oil Engine is built by the De La Vergne Refrigerating Machine Company.



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.

(7230) J. D. asks: 1. Is removal of superfluous hair by electricity successful? A. Yes. 2. How many volts and amperes are usually required? A. About 6 cells of carbon zinc battery.

(7231) W. D. S. asks (1) how to make an electromagnet to lift 75 to 100 pounds 5 inches, with 500 volts, 10 amperes, and use the coil and plunger style. A. The plunger should have the sectional area of 2.5 square inches.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted NOVEMBER 2, 1897.

Table listing inventions and their inventors. Columns include the invention name and the corresponding page number. Includes items like 'Ajr or gas compressing apparatus, E. Hill', 'Alarm, See Boiler pressure indicating alarm', 'Arch, adjustable and removable center for, T. M. Clancy'.

Table listing inventions and their inventors. Columns include the invention name and the corresponding page number. Includes items like 'Bicycle saddle, W. H. Kelly', 'Bicycle seats, adjustable back rest for, J. M. Heas', 'Bicycle tool, J. R. Barker', 'Bicycle umbrella or bag holder, W. H. Hughes'.

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