

RECENTLY PATENTED INVENTIONS.

Electrical Devices.

STORAGE BATTERY.—A. V. MESEROLE, New York, N. Y. Mr. Meserole's invention relates to storage batteries and to other batteries in which active absorbent material is employed for the purpose of supplying an electric current through an electrolyte to fixed conductors or poles; and his object is the production of a form of battery and of elements therefor admitting of general use, and particularly adapted for use in storage batteries of various kinds.

Engineering Improvements.

PROPELLER.—A. C. J. H. MCINTOSH, Eureka, Cal. This propeller acts forcibly against water at all points throughout its working face, owing to the fact that all parts of this face lie at the most efficient angle to the axis of the propeller, and this in turn is due to the plane form of the blade and its position on the hub. Constructed of slightly-resilient metal the blade will in operation expand diametrically at its outer portions not so much from centrifugal force as from the pitch of the blade and its horizontal disposition. The result is a steady increase in the screw diameter in exact proportion to the engine speed, thus gaining propelling power in the screw as the driving effort of the engine increases.

DRAIN-VALVE.—C. A. DUNHAM, Marshalltown, Iowa. This invention has reference to improvements in drain valves or traps, and the object in view is to provide an improved construction and arrangement wherein an expansion chambered diaphragm or disk is not exposed or subjected to any pressure except that which is discharged from the trap, thus making the device more effective and lasting than traps of this class.

Household Utikles.

HEATING APPARATUS.—D. M. HORTON, Fishkill, N. Y. In this patent the invention relates to certain novel features of construction for enabling the inventor to heat various apartments in a building from a single stove or furnace. The improvement is particularly adapted to domestic use, when applied to an ordinary heating-stove in a lower room, with provision for heating rooms above.

EGG-BEATER.—M. SMITH and W. SHERWOOD, New York, N. Y. The invention refers to improvements in devices for beating eggs, cream, spongy compounds, and other substances; and a particular object in view is the provision of a simple and efficient device in which the substance may be warmed or cooled during the operation of beating.

GARMENT-HANGER.—MARY E. PIKE, New Rochelle, N. Y. The purpose of this invention is to provide a garment-hanger especially adapted for hanging skirts and to so construct the device that it will be simple, durable, and economic and adjustable lengthwise, whereby to accommodate itself to any size of waist-band, and to provide a supporting device which will enable a number of skirts carried by such hangers to be hung in a closet in a small space.

BED.—C. A. NEEDHAM, New York, N. Y. The mattress in this case is constructed in a number of independent sections, which are capable of being independently placed in and displaced from the bed, such adjustment being effected by moving the section vertically between the side rails of the bed, thus enabling any part of the mattress to be removed by dropping it down from under a patient or to be placed in the bed by a reversal of such movement.

Machines and Mechanical Devices.

COKE-CONVEYER.—E. G. B. KÖRTING, Berlin, Germany. In this case the invention relates to plants for handling coke, and particularly for conveying coke to the crushing mechanism, and has for its object to furnish means for enabling uncrushed coke to be stored during the night without the loss of energy and in the quality of the coke which is experienced with the ordinary procedure. Considerable economy is effected, as a double handling of the coke is avoided.

ASSAYER'S ORE-CRUSHER.—A. C. CALKINS, Los Angeles, Cal. In the present patent the improvement is in the nature of an ore-crusher designed mainly for the use of assayers; and its object is to provide an ore-crusher in which free access may be had to the crushing-chamber to perfectly clean the same, so that the traces of a previous charge may not remain and falsify the assay of subsequent crushings of other samples of ore.

Pertaining to Vehicles.

NOSE-PIECE FOR SLED-RUNNERS.—A. J. PETERYL, Traverse City, Mich. The object in view of this invention is to provide a metal nose-piece for the front ends of sleigh runners which will afford a continuation of the curvature given to the runners, greatly strengthen wooden runners at the points whereon the nose-pieces are secured by clamping the runners, afford an abutment for the forward ends of the metal soles on the runners, give a shapely design to the upturned front ends of the runners, and confer increased durability thereto.

VEHICLE DRIVING-GEAR.—M. W. TALEN, C. F. PEARSON, E. B. CHRISTOPHER, G. E.

JOHNSON, and L. A. LINDBERG, Chicago, Ill. This invention is intended particularly for use on automobiles, and relates to certain novel features residing in a speed-change transmission-gear of the sun-and-planet type and in a novel construction by which this gear is combined with a differential gearing in such a manner as to form a concrete gearing serving the two functions referred to.

SHIFTING-RAIL FOR VEHICLES.—W. B. FLETCHER, Cameron, W. Va. Mr. Fletcher's invention has reference to detachable rails for vehicles; and it consists in a certain construction and arrangement of parts whereby the top or canopy of a vehicle may be easily and quickly removed to form an open vehicle and when replaced the parts will be firmly secured from rattling.

Railways and Their Accessories.

TELEPHONE SYSTEM.—H. BENTZ, New York, N. Y. This system admits of a great variety of uses. It can be employed in the transmission of mails, telegrams, and parcels, and can be used in stores, factories, and all other places where it is desired to transport comparatively small objects from point to point over predetermined routes. It can be used upon underground routes of every kind and in connection with pneumatic tubes. The number and variety of uses to which the system may be applied is practically without limit.

DYNAMO-GEARING FOR RAILWAY-VEHICLES.—H. WESTON, Perth, Canada. The present invention relates to a dynamo-gearing for railway-vehicles—that is, to means for mounting a dynamo upon a railway-vehicle so as to cause the dynamo to be driven by the revolution of one of the axles of the vehicles. The improvement is particularly useful for driving the dynamos used for lighting and heating passenger cars of all kinds.

CAR-COUPLING.—J. C. YEISER, Austin, Texas. This car-coupling invented by Mr. Yeiser is of the Janney type, and the object of the inventor is to provide novel details of construction for a coupling of the class specified which improve the operation and adapt the couplings in pairs when applied to cars for a reliable coupled connection automatically when one or both cars having the improved couplings approach on a railroad-track that is either straight or curved.

Miscellaneous.

HYDROCARBON VAPOR GENERATOR.—J. F. SHELTON, Fort Worth, Texas. Mr. Shelton is the inventor of an improved apparatus for causing hydrocarbon fluid to vaporize readily. The fluid is fed into pockets which are heated by what is termed the "subflame." The hydrocarbon fluid is vaporized by the heat and is properly aerated while passing to the main burner. The "subflame" is fed from a portion of the fluid vaporized by a local vaporizer.

DENTAL TOOL.—G. B. HOUGH, Somerset, Pa. In this patent the invention relates to a tool intended to hold the "broach" ordinarily used in dentistry for removing the nerve from a tooth. The invention comprises a peculiarly-constructed clamp or chuck to which broaches of numerous kinds are applicable and by means of which the broaches may be held in any desired position with respect to the handle.

BOW.—J. J. ADAMS, Charlotte, N. C. This improvement refers to that form of bow in which the arrow is a captive arrow; that is to say, the arrow is connected to a cord wound upon a spool or reel, by which the flight of the arrow is restrained or controlled and drawn back by means of the cord or the arrow and cord utilized for subsequently carrying a heavier line or rope to or across an elevated or inaccessible point. It is also designed to be used for purposes of sport.

SKETCHING-CAMERA.—W. L. BEEBE and T. A. MCFARLAND, Chicago, Ill. The invention relates to improvements in sketching-cameras, or a "mirrorscope," and one principal object is to provide a simple portable apparatus especially adapted for fieldwork by artists, amateurs, and others in making sketches from nature or objects in general, the use of the instrument facilitating the selection of the view, composition of the scene, and also serving as a color guide.

THROAT-BRACE FOR HORSE-COLLARS.—J. H. MILLER, Duluth, Minn. The object claimed by this inventor is the provision of a novel brace attachment for horse-collars which will strengthen the throat-section of the collar, preventing rupture of the same when the collar is opened at the top for application upon the neck of a horse and also preventing draft strain imposed on the lower portion of the collar from drawing it against the windpipe of the horse, so as to obstruct breathing.

PRINTER'S QUOIN.—W. S. DECKER, Dallas, Texas. In this case the invention has reference to printers' lock-ups; and its object is to provide an improved quoin arranged to insure positive and automatic locking of the wedges and to permit convenient unlocking of the wedges and moving the locking device into an inactive position and retaining it therein.

ART OF PURIFYING ALCOHOLIC LIQUORS.—L. S. HIGHTON, San Francisco, Cal. By this process poisonous and disagreeably

flavored compounds known as "fusel-ols" are removed in whole or in part from raw or immature spirituous liquors, either to produce a practically flavorless and in cases to some extent a neutral spirit for laboratory and pharmaceutical uses or to render such liquors more palatable and wholesome as beverages, to shorten their time of maturation, and to enhance their commercial value.

DESIGN FOR A FINGER-RING.—G. H. HORTH, Hudson Heights, N. J. The particular feature of this design comprises a number of bands forming the body of a ring, the ends of which, terminating in a cluster around a brilliant, serve as claws for setting the stone. The design is graceful and ornamental.

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.

MARCONI WIRELESS.

Great Fortunes to be Founded in the New System.

When Alexander Graham Bell patented and perfected his telephone, the skeptics were loud in their derision of the "toy." Nevertheless, Bell found believers, and those believers were rewarded for their faith by immense fortunes. Gardner G. Hubbard, the father-in-law and faithful friend of Bell, was the man who risked the most and gained the greatest rewards in backing Bell and the telephone until it reached the stage where the public no longer derided the instrument as a plaything, but clamored for it as a necessity. In the Marconi wireless telegraph there is a parallel of history. Just now in the formative and constructive period, there are doubters and skeptics, but there are some faithful friends, and it is these friends and faithful ones who are going to reap the fortunes that are bound to follow the general adoption of the wireless system. The great advantage of this system over that using wires and cables is its extremely low initial cost, which relieves the company operating it of a large burden of interest, taxes and depreciation, thus increasing its earning capacity many fold.

Those who are investing in the stock of the Marconi Wireless Telegraph Co. of America to-day are the ones who are certain to win great fortunes by the future increase in value of those stocks, as well as through the dividends earned and paid in the interim. Bell Telephone stock increased in value from \$1.00 per share to be worth over \$1,000 per share, and so Marconi stocks will very likely increase from \$4.00, the present price, to over \$1,000 within a few years. Thus \$30 invested now may become \$20,000 within a decade. It is by wise investments such as these that the great fortunes of the big millionaires have been made. The Vanderbilts in railroads, the Goulds in telegraphs and railroads, the Mackays in cables, the Rockefeller in Standard Oil, the Hubbards in telephones. The man who has a few hundred dollars laid away to invest and who has the intelligence to grasp a fleeting opportunity will be the one to seize the Marconi offering and make his fortune.

"The Weekly Marconigram" is the name of a periodical devoted to the new wireless system, and its publishers, Munroe & Munroe, Dept. 10, Broad Exchange Bldg., New York, announce that it will be sent free to all who apply for it.

This firm is known as an aggressive, enterprising combination of brilliant young financiers who have a successful career behind them as a guarantee of their future. They have agreed to keep the Marconi Company supplied with working capital until the system is thoroughly established and in full commercial operation. They have issued a handsome booklet, "Marconi Wireless," giving full particulars concerning Marconi and his system, with 32 illustrations in half-tone, which they send free to persons likely to become interested as stockholders in the company.

Mr. George H. Munroe, New York, manager of the firm, says: "We are soliciting the investment of small amounts in Marconi securities for the reason that we believe that the American people will welcome the establishment of this competing system, and because we know that great profits will accrue to the investor from the development of this marvelous invention to a commercial stage. The company has, already, over a quarter of a million dollars invested in stations and apparatus in the United States, but it will require at least as much more before the business can be established upon a highly profitable basis. Once that is done, the value of Marconi securities must necessarily advance very rapidly, and those who buy now will, in the course of a few years, find themselves in possession of securities equally as profitable as Telephone, Western Union and Commercial Cable have heretofore been. If anybody wants to know more about the opportunities this system offers, let him write to us, at Broad Exchange Bldg., and we will be glad to give them."

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. MUNN & CO.

Marine Iron Works. Chicago. Catalogue free. Inquiry No. 4532.—For manufacturers of model steam engines.

AUTOS.—Duryea Power Co., Reading, Pa. Inquiry No. 4533.—Wanted, a large, powerful windmill up to 25 horse power.

Morgan Emery wheels. Box 517, Stroudsburg, Pa. Inquiry No. 4534.—For manufacturers of the Engineers' Perfection Oilers.

"U. S." Metal Polish. Indianapolis. Samples free. Inquiry No. 4535.—For manufacturers of a gas kiln suitable to fire bisque, glass, etc.

For bridge-retracting engines. J. S. Mundy, Newark, N. J. Inquiry No. 4536.—For manufacturers of sponging machines, for shtinking cloth.

Handle & Spoke Mch. Ober Mfg. Co., 10 Bell St., Chazrin Falls, O. Inquiry No. 4537.—For manufacturers of stand pipes as used in small water systems.

Mechanics' Tools and materials. Net price catalogue. Geo. S. Comstock, Mechanicsburg, Pa. Inquiry No. 4538.—For machines for turning wood handles for bucket pails, etc.

Sawmill machinery and outfits manufactured by the Lane Mfg. Co., Box 13, Montpelier, Vt. Inquiry No. 4539.—For machinery to manufacture caustic soda out of sulphate and carbonate of soda.

Let me sell your patent. I have buyers waiting. Charles A. Scott, Granite Building, Rochester, N. Y. Inquiry No. 4540.—For manufacturers of coal and peat briquetting machinery.

For Machine Tools of every description and for Experimental Work call upon Garvin's, 149 Varick, cor. Spring Streets, N. Y. Inquiry No. 4541.—For dealers in imported and Indian arts, etc.

The largest manufacturer in the world of merry-go-rounds, shooting galleries and hand organs. For prices and terms write to C. W. Parker, Abilene, Kan. Inquiry No. 4542.—For manufacturers of a crusher and smelter for a lead mine.

The celebrated "Hornaby-Akroyd" Patent Safety Oil Engine is built by the De La Vergne Refrigerating Machine Company. Foot of East 128th Street, New York. Inquiry No. 4543.—For manufacturers of the Marsh steam air compressors for automobiles.

Contract manufacturers of hardware specialties, machinery, stampings, dies, tools, etc. Excellent marketing connections. Edmonds-Metzel Mfg. Co., Chicago. Inquiry No. 4544.—For manufacturers of mechanical drawing instruments.

Manufacturers of patent articles, dies, metal stamping, screw machine work, hardware specialties, machinery and tools. Quadriga Manufacturing Company, 18 South Canal Street, Chicago. Inquiry No. 4545.—For manufacturers of articles on royalty.

FOR SALE.—Rights on "Janeric," Liquid Door Check, Nordqvist's U. S. Pat. Oct. 8 1901. C. F. Rennekamp, Sweden, proprietor. Unequaled invention; automatic, adjustable, invisible. Particulars of C. W. Schmidt, 674 E. 154th Street, N. Y. Sole representative for U. S. Inquiry No. 4546.—For manufacturers of six-inch draw-knives.

ACME SPURS.—Having no way of getting on the market, will sell patent rights; stock made up and material, machines for making (no power required) complete, representing an actual expenditure of \$800 for \$500 cash. Address inventor, Lock Box 248, Ossining, New York. Inquiry No. 4547.—For a market for chromium ores.

Send for new and complete catalogue of Scientific and other Books for sale by Munn & Co., 361 Broadway, New York. Free on application. Inquiry No. 4548.—For manufacturers of gasoline traction engines of a small power.

Inquiry No. 4549.—For a burner for burning crude oil for stoves. Inquiry No. 4550.—For blue manufacturers.

Inquiry No. 4551.—For manufacturers of tin novelties. Inquiry No. 4552.—For manufacturers of Baxter boiler and engine, also apparatus for cold storage room.

Inquiry No. 4553.—For manufacturers of tapioca machinery. Inquiry No. 4554.—For manufacturers or wholesale dealers in flower pots.

Inquiry No. 4555.—For manufacturers of shreading machines for heavy work. Inquiry No. 4556.—For parties making soft steel castings.

Inquiry No. 4557.—For manufacturers of a machine for cross-cutting timber. Inquiry No. 4558.—For razor concaving and grinding stones.

Inquiry No. 4559.—For manufacturers who make patented articles by contract. Inquiry No. 4560.—For machinery for preparing and cutting the block mica for market.

Inquiry No. 4561.—For manufacturers of pocket cutlery, razors, scissors, etc. Inquiry No. 4562.—For blades with edge ground like hack saw blades, but without teeth.

Inquiry No. 4563.—For manufacturers of pantographs.

NEW BOOKS, ETC.

THE HARDENING AND TEMPERING OF STEEL. By F. Reister, London; Scott, Greenwood & Co., New York; D. Van Nostrand Company, 1903. 16mo. Pp. 118. Price \$2.50.

A work on this subject is always welcome, and the formulas and other information available by means of this book will prove very valuable to steel workers and tool makers.

MAN AT THIS EARTH to the Man possible of an essential being of the universe. By Leonidas Spratt, Jacksonville, Fla.; H. & W. B. Drew Company, 1902. 8vo. Pp. 412.