

RECENTLY PATENTED INVENTIONS.

Agricultural Implements.

HAY AND STRAW STACKER.—ROBERT GRISWOLD, Carr, Col. Mr. Griswold has devised a portable machine for carrying and unloading loose hay and straw. In the construction of the machine a pivoted carrier is included, which operates back and forth upon a body section. This body section can be moved from place to place and held firmly in its adjusted position.

COMBINED RAKE AND STACKER.—ROBERT H. JAHNS, Miami, Tex. This invention provides a horse-rake for hay, which can be used for loading the hay on a wagon or piling it on a stack. The combined hay rake and stacker comprises a frame consisting of two parallel bars having a tongued and draft attachment at its front end and a frame at its rear end projecting at right angles. At the front and rear ends, supporting-wheels are mounted; and at the outer end of the right-angulantly projecting frame a supporting and driving wheel is mounted. Over this wheel a single rotatable mast is erected, on which a rake is slidably supported and arranged to rotate therewith. A hoisting-rope, a windlass, and gears are provided, the gears being actuated by the running-wheel under the mast, for the purpose of raising and lowering the rake.

CHECK-ROW ATTACHMENT FOR CORN-PLANTERS.—ELVIS C. ROBERTS, Hoidenville, Indian Territory. Combined with a main frame having rear supporting-wheels, furrow-openers, and vertical guides at the front, are marker-wheels and their axle, which axle is arranged to play vertically between the guides. On the axle a toothed wheel is fixed. An elongated lantern-wheel, pivoted at its lower end, has at its upper end a vertically-slotted guide which receives the axle and allows it to play vertically. The seed-dischargers are operated by means of a tappet-wheel fixed on the seed-discharger shaft, and a cam fixed on the lower portions of the lantern-wheel and arranged to engage the tappet.

STRAW-STACKER AND CHAFF-SEPARATOR.—JAMES C. CAROTHERS and NATHAN E. MORRIS, JR., Franklin, Tenn. The invention is a pneumatic attachment for a threshing-machine, and is arranged to separate chaff from the straw, and deposit them in separate stacks. The machine consists of a straw-drum to which a passage leads, and a chaff-drum to which a passage also leads. Fans are located in the drums; and independent straw and chaff chutes are connected with the respective drums, whereby straw and chaff are separated from each other within the threshing-machine, to be deposited in different piles.

Engineering Improvements.

TOOL.—WILLIAM NEWMAN, Alexandria, S. D. This tool, for removing flues from boilers, comprises a driving shoulder or ring, the diameter of which does not exceed the external diameter of the flue to be removed. A tapered guide extends beyond the shoulder to operate in the flue. In operation the driving-shoulder is fitted in place and the tapered guide slipped up against the driving-shoulder and secured by a nut. The tapered guide serves to direct the shoulder or ring against the end of the flue, so that it can operate as a ram.

BEARING-ADJUSTER FOR CONNECTING-RODS.—CHARLES E. KESTER and CHARLES R. MOORE, Hillsboro, Ill. A gib and key are usually employed for tightening the strap holding the brasses which constitute the bearing of a connecting-rod on the wrist-pin of an engine-crank. To adjust such a bearing necessitates the stopping of the engine. The present invention permits this adjustment to be made without stopping the engine or reducing its load or speed. Two wedges are employed, which work in frictional contact with inclined surfaces on one of the halves of the bearing. By adjusting these wedges toward or from each other, the bearing is tightened or loosened. A screw-shaft and worm-gear serve to operate the wedges simultaneously.

Railway Contrivances.

ELECTRICAL SIGNALING DEVICE FOR RAILWAYS.—WILLIAM A. FARRELL, Wellsville, N. Y. Should a switch be open, the mechanism provided by Mr. Farrell will sound an alarm in the locomotive and also in a station or switch-tower. An attendant in a station can make tests for open switches and signal the engineer when approaching a crossing or arriving at a point where the locomotive-whistle is to be sounded.

FISH-PLATE.—ALBERT M. WILSON, Cherokee, Iowa. The object of this invention is to provide in connection with a fish-plate a simple device operating to hold the plate firmly and permanently in place. The fish-plates are forced tightly against the rails by means of set-screws, and exert a considerable pressure upon the fastening or tie bolts. Thus the tie bolts are prevented from becoming loose, as often happens through the constant pounding of trains.

CAR-COUPLING.—MARK A. BROWN, Douglas, Ga. Mr. Brown has devised a construction by means of which the coupling-pin is readily locked in its engagement with the coupling and readily detached therefrom. The coupling device comprises a bearing provided with communicating slots, the walls of which form a pair of lugs located in a staggered relation. A cylindrical shaft is journaled in the bearing and is free to slide lengthwise and to rock,

and is provided with a radial arm extending through the slots and engaging the lugs, and with a handle for rocking the shaft and sliding it lengthwise to engage the lugs.

AUTOMATIC COUPLING.—LOUIS BOIRAULT, Rue Chateaudun 51, Chartres (Eure-et-Loire), France. The draw-head is provided with two inversely-arranged bolts, which are joined by an adjusting balance-lever, so as to neutralize the disturbing effects of shocks. The draw-head is connected with the draft-bar by an extensible frame having a compensating buffer-spring, which prevents any play between the several parts connecting the draft-bars of two adjacent cars. A controlling device for the bolts permits not only the unlocking of a coupling, but also its being kept unlocked. The coupling can be adapted without any modifications to the railway-cars at present in use fitted with couplings having screw tension-rods.

Miscellaneous Inventions.

BLOCK.—LAFAYETTE W. JOHNSON, Jerome, Ariz. Ty. The invention relates to a block of that class known as "snatch-blocks" in which parts of the framing or shell of the block are movable to permit a rope to be engaged with the sheave without necessitating the reeving of the rope through the block. To this end the invention comprises a block with a swivel-eye, serving not only to sustain the block, but also removably to engage the rigid portions of the block, so as to hold the rope properly in the sheaves.

MATCH-HOLDER.—ANTON T. ANDERSON and CARL F. HJERPE, Jamestown, N. Y. This novel simple match-holder is adapted to hang upon an upright support and is capable of holding a considerable number of matches, which can be conveniently and safely removed from the holder at its lower end one at a time or in greater number if desired. Means are provided for scratching the match.

FISH-TRAP.—WILLIAM J. INMAN, Russellville, Ky. The trap is constructed of a flexible, transparent or semi-transparent substance. The best material adapted for this purpose is sheet celluloid. It is tough and not liable to breakage, and, being transparent, readily exposes the bait and is itself partly or wholly invisible, so that it does not frighten the fish as much as other material.

SWIMMING DEVICE.—BYRON J. HOOPER, Portland, Ore. The swimming device comprises a body to which two wings are hinged, limited in their upward and downward movements. Such a device is arranged for attachment to each arm and extends from the elbow to the wrist. The device may also be attached to each leg, and extends from the knee to the ankle. The swimming devices permit the swimmer to make rapid progress through the water.

HEAD-REST.—JOHN R. KIRK, East Las Vegas, New Mexico. The head rest is to be used in railway-cars. The rest consists of a base-piece securable upon a person's shoulder and a hollow longitudinally-slitted post erected upon the base-piece. A standard is slidable in the hollow post and is held at a desired point of adjustment by means of a clamp on top of the post. An offset projection is carried on the upper end of the standard. The offset end of the standard is secured upon the head-rest-block detachably.

PLEASURE-CANAL.—GUSTAV E. PAPE, Brooklyn, New York city. The invention relates to pleasure canals, and more particularly to means for removing boats from a low water level to a relatively higher water level and for maintaining different levels of water in the canal. The pleasure-canal consists of a water-way provided with a wheel for maintaining separate bodies of water at different levels. Adjacent to the wheel are locks connected by conduits with the bodies of water. The conduits can be opened and closed at will. Passengers may ride continuously, without vacating their seats at the terminals for another ride. The economy of power used is noteworthy.

Designs.

ORNAMENTAL STAND.—EDMUND M. SAETTEL, St. Louis, Mo. The leading feature consists of a globe on which the map of the world appears, the globe being mounted on a base having a cylindrical bottom and two superposed tapering concave portions. A sword and a pen project above the globe.

DRUGGIST'S LABEL-CASE.—ALEXANDER S. BAIRD, Manhattan, New York city. In order to prevent possible mistakes in the selection of labels, Mr. Baird has devised a box in which a continuous strip bearing the labels is to be mounted on a roll. The label strip passes before an opening so that it can be read before being torn off.

BAG FRAMES.—SIDNEY A. KELLER, Manhattan, New York city. The bag frame is curved at the lower edge and at the upper edge at the center. At each side of the central curve are two scallops. The space between the edges are embossed in relief. The other bag-frame has a three-scalloped lower edge, an opposite-curved central dome and a curve at each side of the central dome, each of which curves join the outer curve of the lower edge and of the ornamentation.

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Rigs that Run. Hydrocarbon system. Write St. Louis Motor Carriage Co., St. Louis, Mo.

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For Machine Tools of every description and for Experimental Work call upon Garvin's, 149 Varick, cor. Spring Streets, N. Y.

Inquiry No. 1849.—For manufacturers of machines for making wrapped strings for pianos.

Manufacturers of patent articles, dies, stamping tools, light machinery. Quadriga Manufacturing Company, 18 South Canal Street, Chicago.

Inquiry No. 1850.—For manufacturers of electric railway construction material.

Designers and builders of automatic and special machines of all kinds. Inventions perfected. The W. A. Wilson Machine Company, Rochester, N. Y.

Inquiry No. 1851.—For manufacturers of sodium.

FOR SALE.—Handsome 24-passenger automobile coach; also 2-ton steam freight wagon. Both new. C. Francis Jenkins, 1103 H St. N.W., Washington, D. C.

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The celebrated "Hornsby-Akroyd" Patent Safety Oil Engine is built by the De La Vergne Refrigerating Machine Company. Foot of East 138th Street, New York.

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Inquiry No. 1856.—For manufacturers of small figures of animals and persons of papier maché.

EXPERIMENTAL MACHINE SHOP.—We are not using our shop at present. Well equipped with lathes, shaper, woodworking machinery, etc. Will rent use and power very low. Fine place for automobile work. Billings Clapp Co., Boston, Mass.

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INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending December 31, 1901, AND EACH BEARING THAT DATE. [See note at end of list about copies of these patents.]

Table listing various inventions and their patent numbers, including items like Acid and making same, Acid and making same, acylated indoxyl, Acid, making acetyl-phenyl-glycol-ortho-carboxylic, F. Bender, Advertising wheel, A. E. Chubbuck, Air brake, compressed, J. Lipkowsky, Alarm device, W. H. Clark, Alkali chlorides, apparatus for the continuous electrolysis of, W. Gintl, Alkali chlorides, continuously electrolyzing, W. Gintl, Alum, making, E. Everhart, Animal trap, E. Mills, Auger, hollow, A. A. Wood, Automobile driving gear, W. Van Wagoner, Automobile gasoline tanks, vent for, A. L. Kull, Automobile running gear, W. J. & G. Lane, Axle and box, car, J. R. Fleming, Axle spindle protector, C. H. Smith, Axle, vehicle, H. S. Hemenway, Back pedaling brake and coaster, G. H. Hammond, Bag machine, G. R. Ward, Bale tying attachment for compressors, F. B. Shuster, Ball players, body protector for base, J. Gamble, Band brake, W. J. & G. Lane, Band cutter and feeder, J. B. Slutz, Barber's chair, C. W. Heiber, Bar seat or stool, Ehmman & Stueble, Basket making machinery, O. Mergenthaler, Batteries with charging circuits, apparatus for controlling the connection of storage, N. H. Suren, Batteries with charging lines, controlling device for connecting storage, N. H. Suren, Beating engine, A. W. Case, Bedsteads, folding metallic, G. A. Mellon, Bell, E. D. Rockwell, Belt cleaner, H. S. Hoy, Bicycle, C. L. Horack, Bicycle, F. H. Pierson, Bicycle canopy, J. Anderson, Bicycle coasters and brake, G. H. Hammond, Billiard cues, self-chalker for, J. Eskerson, Billiard table pocket, C. Fisher, Binder twine tension, F. D. Ring, Boat, W. B. Motheral, Boat or boat vehicle, recreation submarine, J. Wilson, Book displayer, E. G. Niewaner, Book for the game of golf, score, C. Sparks, Bookbinding sheet, F. Hager, Boot or shoe finishing machine, W. Gordon, Bottle cooler, A. W. Puffer, Bottle, non-reusable, Roderberg & Rendell, Bottle stopper, J. S. Alston, Bottles, jars, etc., manufacturing, C. Christiansson, Box, See Casting box, Box handle, C. S. Dome, Brake mechanism safety, W. W. Harmon, Bridge lift, E. D. Cummings, Bridle bit, Craighead & Roberts, Broom, A. R. Wilson, Bubble blower, soap, C. W. & A. Mettler, Bucket, dumping, E. E. Slick, Budding nippers or tongs, F. J. E. Vollstedt, Bung, expandible, G. W. Bernauer, Burial casket lowering device, J. Bomgardner, Caisson for repairing vessels and submerged surfaces, D. Mason, Camera multiplying attachment, W. R. Spooner, Can opener, J. Beauchemin, Can opener, R. W. Newton, Car bolster, railway, J. F. O'Connor, Car coupling, I. L. Kiser, Car coupling equalizer, I. L. Kiser, Car coupling, railway, R. B. Fickenwirth, Car, dumping, E. Baggeley, Car illuminating apparatus, W. S. Hamm, Car, railway, Vanderbilt, Cars, removable curtain rod for folding berths in sleeping, H. M. Estabrook, Carbids, producing, I. L. Roberts, Carbureter, J. S. Legge, Carbureter or mixing valve for explosive engines, A. L. Kull, Carding engine feeding device, D. C. Fisher, Carpet renovators, attachment for pneumatic, J. S. Thurman, Case, See Lamp or bulb case, Cash register, E. H. Jahnz, Casks used in brewing operations, construction of union, W. Cutler, Caster, furniture, Jones & Rape, Casting box, L. Grossman, Chain, drive, H. Renold, Chain, driving, H. Renold, Chair, E. A. Farish, Change slide, J. G. Hendrickson, Chart, adjustable, sleeve, H. Wilson, Chatelaine hook, E. C. Poage, Check, etc., and writing fabric for same, bank, C. M. Higgins, Cigar tuck crimping, J. Haines, Cigarette machine pasting device, R. E. Rosewarne, Cinder guard, Morse & Tuggle, Clamp, G. W. McKenzie, Clamping device, J. S. Copeland, Clamping mechanism, R. R. Osgood, Clasp, M. Rubin, Clay separating apparatus, G. D. Snyder, Clock case, W. K. Menns, Clothes clamp, W. A. Hines, Clothes line puller, G. W. Diebold, Clutch mechanism, ratchet, A. Clausen, Clutch, reversible, W. L. Judson, Coffee or tea pot, J. A. McBride, Coffee pot, A. M. Amos, Collander, A. M. Enzler, Collar, apparel, C. A. Scriven, Collar, shirt, Mapes & Minor, Composite perforated material, H. Parker, Conductor and resistance cord, combined flexible, E. E. Werner, Consecutive view apparatus, W. K. L. Dickson, Cooker, feed, L. A. Yource, Cooking apparatus, gas, E. W. T. Richmond, Cork, indestructible bottle, D. Chambers, Cork puller, C. Morgan, Cotton press, W. T. Bessonet, Cow tail holder, C. W. Colwell, Crates, etc., lid fastening for shipping, J. C. Gentry, Cream separator, E. M. Cook, Cream separator, J. C. Gray, Cream separator, centrifugal, W. C. Hartmann, Cultivator and planter attachment therefor, wheel, B. J. Bigler, Cultivator and planter, combined, Noren & Clyburn, Curtains, machine for looping and stitching supporting tapes to, J. Kynaston, Cuspidor, J. Deschamps, Cutter bar, J. J. Ellsworth, Cutter head, A. B. Landis, Cylindrical, agitating machine for, G. Rubsch, Jr., Cycle, C. L. Horack, Cycle stand, Arp & Jensen, Cycle treadle bearing, H. Nowik, Delivery apparatus, automatic, C. Perdriset, Dental appliance, hot air, H. C. Bagby

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