

RECENTLY PATENTED INVENTIONS. Electrical Apparatus.

ELECTRIC LAMP.—W. McCONNELL, Brooklyn, N. Y. The lamp or torch is of the class designed to be carried in the hand or pocket, and the invention lies in a circuit-closer, by means of which an intermittent or flash light may be produced, or the circuit held closed for any desired length of time.

Mechanical Devices.

MACHINE FOR MAKING PIPE.—J. H. MARTIN and D. ORMAND, Riverside, Cal. Two patents have been granted to these inventors for a machine of this kind. The inventions relate to apparatus for making pipe of plastic material, such as asphalt. In the first invention, the asphalt is fed into an annular revoluble mold. Stamps working therein pack the material down, and trailers attached to the stamps keep them at the proper elevation with respect to the upper end of the pipe section.

The second machine is designed for making continuous lengths of pipe, such piping being adapted particularly for use in conduits or trenches carrying electrical wire. The plastic material is placed in a hopper and automatically pushed down into the throat of the machine. Upon starting the motor, the plastic material is pushed out from the throat around a core and within the rear part of the casing. This forms a continuous piping, and as the piping sets or hardens, the action of a plunger causes the entire machine to be pushed forward.

COAL-WASHER AND ORE-CONCENTRATOR.—A. C. CAMPBELL, Asheville, N. C. A reciprocating motion and a percussive action is given to the pan to cause the separation of more dense stuff and the less dense stuff into two principal layers. The top layer is floated away by the escaping water and is discharged over the tail end of the pan into a sluice, while the lower layer or more dense stuff is discharged at the head of the pan.

MACHINE FOR MAKING COMPOUND PAPER.—C. P. BROWN, Comstock Bridge, Conn. The machine is designed for pasting together two webs of paper during the process of manufacture, and comprises a plurality of press rolls arranged in the form of a hollow square in which is located a paste roll for applying paste to one of the webs before they are pressed together.

PROPELLER GEAR.—G. W. GARDINER, Philadelphia, Pa. The propeller gear comprises a frame arranged in a trunk formed in the vessel and adapted to be lowered below the bottom of the vessel. The invention is applicable to boats of all kinds, and if applied to a centerboard vessel, the trunk carrying the centerboard may be enlarged so as to receive also the propeller gear and one or more centerboards.

ROCKER ATTACHMENT FOR SEWING-MACHINE TREADLES.—F. P. HARRIS, Greenville, Ky. The physical exertion required for operating the ordinary sewing-machine treadle is greatly reduced by using the rocker attachment here described. A foot rocker is mounted on the treadle, being held thereto by springs which tend to keep it balanced. When pressure is brought to bear on the toe or heel of the rocker, the power must be conveyed to the treadle through these springs, thus giving an elastic motion free from any sudden strain.

RAKING DEVICE FOR FURNACE GRATES.—J. C. McDONALD and M. BRENNAN, Sidney, N. Y. The device comprises a raking frame normally located under the grate and provided with spaced bars adapted to pass between the grate bars. A crank shaft is connected to one end of the raking frame, which gives the frame an up-and-down swinging and lengthwise-traveling motion between the grate bars.

Vehicles and Their Accessories.

WHEEL.—A. A. VEREL, Glasgow, Scotland. The distinguishing feature of this wheel is found in an outer rim held to the hub by spokes passing through slots in an inner rim. Tension and compression springs are applied to the inner ends of the spokes, and interpose between them and the hub.

TRUCK.—E. S. PERKINS, Auburn, Logan county, Ky. The truck comprises a bed or platform provided with an opening, into and out of which a platform section is vertically movable. This section may be raised to receive or deliver goods at different heights, this being desirable when the truck is used for baggage or freight in connection with railroads or in commercial houses.

WAGON GEAR.—J. AUSTIN, Pitkin, Colo. The invention relates to mechanism for facilitating the starting movement of wagons or other vehicles. It consists in a gear connected directly with the team and arranged to act directly on the wheels so as to impart turning movement thereto, after which the gear is automatically thrown out of action, and the vehicle is drawn in the usual manner.

MEANS FOR SECURING ELASTIC TIRES TO WHEELS.—W. F. WILLIAMS, London, England. Improved means are employed for se-

curing elastic tires to the rim of a wheel by bands. The invention consists essentially of a combined tension screw and worm gear, the latter acting as a nut to apply the requisite tension to the screw. The tension screw is curved approximately to the curvature of the wheel rim, and is provided with a hook or other means of making detachable engagement with one end of the holding band, the other end of which is fixed.

WHEEL FOR VEHICLES.—H. EDENBOROUGH, Snarebrook, England. The invention relates to wooden wheels of field guns, wagons or other vehicles, and provides for readily tightening up the wheel when the felloes and spokes become loose. The wheel has its rim coned in opposite directions on the external circumference. An outer encircling tire-band forms the tread of the wheel, and two opposed series of segmental wedges are located between the rim and the tire-band, these wedges being oppositely coned on their internal circumference to correspond with the circumference of the wheel rim. Transverse bolts are adapted to draw the outwardly coned segments toward each other with a wedge-like action, so as to take up all slack.

VEHICLE ATTACHMENT.—W. P. LEE, Fairfax, Minn. The purpose of the invention is to provide an attachment for single-horse vehicles which will enable the wheels to run in the beaten track, while the horse may travel at one side of the center of the road in one of the tracks made by a double team of horses. The thills are attached to the front axle at one side of the center. In order to compensate for the non-uniform draft which this arrangement transmits to the axle, a compensating spring is provided.

Miscellaneous Inventions.

STAMP PAD.—E. G. WOODY, New York, N. Y. With the usual form of stamping pad constructed of felt, at certain times, especially in warm weather, an unnecessary quantity of ink rises to the surface, resulting in a blurred and imperfect impression. In this pad a practically uniform surface thickness is at all times maintained. The stamp pad consists of open grained wood impregnated with ink and having a rough surface which serves to insure an even distribution of the ink.

BED SPRING.—F. MOEHLE, Sheffield, Iowa. The object of the invention is to provide a bed-spring that may be readily adjusted to bedsteads of different sizes and may be quickly taken apart and packed in a small space. The frame of the bed-spring comprises side rails of tubular metal threaded at their ends into corner castings. The head and foot rails consist of pairs of bars. Rollers or tubes are mounted on these bars. If it be desired to widen the frame, it is merely necessary to add short tubesections. The springs consist of metal plates which pass over the rollers at the head and foot of the frame, and whose ends underneath are connected one with another by helical springs.

WASH BOILER ATTACHMENTS.—MARY C. SONNEBORN, Laporte, Ind. The device is designed for lifting clothes from a wash boiler, and is so arranged that upon lifting the device it will operate to squeeze a portion of the water out of the clothes, after which it may be suspended from an attachment on the boiler to permit draining.

CARPET STRETCHER.—J. WHITEHART, Zanesville, Ohio. The stretcher has a longitudinal member provided at one end with a metallic claw. Pivoted to the other end is a lever which rests at one end on the floor and has pivoted to its other end the stretching lever. This lever has a handle and terminates at its lower end in a cross bar provided with teeth. By pressing down on the handle these teeth are caused to force the carpet toward the anchor claw. A ratchet bar holds all the parts in the position they assume when the handle is depressed.

FENCE JACK.—L. C. KELLY and C. E. AMSPACHER, Charlotte, Mich. The leading object of the invention is to provide improved details for a fence jack which will keep the carrying wires of the fence taut and compensate for the general shortening of these wires when twisted to retain upright pickets in spaced position thereon.

GRADER.—J. BAGLEY, Tacoma, Wash. The apparatus is adapted for scraping and hauling earth in grading, and is also applicable in ditching and dredging. It has vertical side plates rigidly connected together. A rear end plate extends between the side plates and is curved around a horizontal axis presenting the concave side to the front of the grader to form a bucket. Blades are fastened along each edge of the bucket.

ARTIFICIAL DENTURE.—A. F. COGSWELL, Crete, Neb. The invention relates to artificial crowns for natural roots of teeth and provides metallic backing for the wearing surface of the tooth, also, in connection with this backing, an anchor post or stud. This stud extends through the crown tooth and is anchored in the canal in the root to which the crown is applied. The metallic backing and the stud are separable from the crown so that the latter can be conveniently ground to accurately fit upon the outer end of the root.

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.

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Inquiry No. 2382.—For parties to undertake the manufacture of an improved thread-cutting die.

We design and build special and automatic machinery for all purposes. The Amstutz-Osborn Company, Cleveland, Ohio.

Inquiry No. 2383.—For manufacturers of aluminum hooks.

Automobiles built to drawings and special work done promptly. The Garvin Machine Co., 149 Varick, cor. Spring Streets, New York.

Inquiry No. 2384.—For machinery for coating blue-print or other sensitive surface papers.

IDEAS DEVELOPED.—Designing, draughting machine work for inventors and others. Charles E. Hadley, 584 Hudson Street, New York.

Inquiry No. 2385.—For manufacturers of spring motors.

Factory room with power, steam, elevator, etc.; good light, also storage room. Chas. F. Kilburn, 84, 86, 88 Mechanic Street, Newark, N. J.

Inquiry No. 2386.—For manufacturers of springs for bodies of automobiles and vehicles.

WANTED.—Partner to finance several inventions. Foreign and domestic patents to secure. Address Inventor, Box 81, Cynnet, Ohio.

Inquiry No. 2387.—For dealers in granite-steel and tin cooking utensils.

FOR SALE.—To party direct, for cash, patent 608,925 on folding umbrellas. No selling agencies need answer. M. R. Studams, Bridgeton, N. J.

Inquiry No. 2388.—For dealers in uncured sheet rubber of different thicknesses and degrees of softness.

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

Inquiry No. 2389.—For manufacturers of mortar-mixing machines.

Patents developed and manufactured, dies, special tools, metal stamping and screw machine work. Metal Novelty Works Co., 43-47 S. Canal St., Chicago.

Inquiry No. 2390.—For a portable machine for extracting hemp fiber from the hemp plant.

ELECTRIC DRY BATTERY.—Manufacturers submit free samples with casting qualities. Quote prices for quantities. Darling Motor Company, Chicago, Pa.

Inquiry No. 2391.—For machinery for making sticky fly paper.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending April 1, 1902, 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 Account device, Accumulator, Acid ether of cinchona alkaloids, etc.

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