

RECENTLY PATENTED INVENTIONS.

Agricultural Implements.

CORN-HARVESTER.—J. STRAND, Mankato, Kans. In this invention Mr. Strand aims to provide an instrument which when operated in a cornfield will receive the standing corn, snap the ears from the stalks and cut the husks of the ears as they leave the snapping device. The parts are so constructed and grouped that they can be used effectually in connection with husking devices including elevators.

SEED-PLANTER.—J. M. HIGBE, Manson, Iowa. In this seed-planter the dropping mechanism is driven by frictional gearing from the axle or other part connected with the traction wheels of the planter. The gearing comprises two independently operative trains, either one or both of which may be thrown into action as desired, the trains acting independently, to drive the dropping mechanism uniformly. The planted hills may be indicated by dropping on the ground from time to time a quantity of marking powder. Also a small plow may be used in front of each drive-wheel to clear away loose earth and afford a firm bearing for the wheels.

PLOW.—J. P. MULRONY, Plaza, Wash. This plow belongs to that class having cutters in disk-form for loosening the soil and severing weeds as the plow is progressively moved. Certain improvements are herein provided whereby the plow will more effectually excavate and loosen the soil, separate weeds, roots of plants, and other refuse growths therefrom, depositing the same on the surface of the plowed and pulverized soil.

Apparatus for Special Purposes.

TURPENTINE-STILL.—J. T. GILMER, Mobile, Ala. This apparatus is designed for use in the manufacture of rosin, turpentine, and like products. It comprises a gum vat and means for heating the same, a strainer in the upper part of the vat, and a funnel-like partition arranged below the strainer. A filter is situated in the mouth of this funnel-like partition, and the filter is formed of absorbent material sandwiched between screens or sieves.

ACETYLENE-GAS GENERATOR.—C. W. METCALF, Tucson, Arizona Ty. Mr. Metcalf has invented a new machine for generating gas from calcium carbide for illuminating or other purposes. The machine is practically automatic in its operation and is adapted to form a pure and clean gas.

PIPE-CLEANING APPARATUS.—E. D. CASE, Flint, Mich. This invention provides improved means for cleaning beer-distributing pipes or the like, in which the cleaning solution may be at all times ready for instant use. The solution is forced into the pipe or pipes by its own pressure, thus obviating the use of pumps, heating devices, or water pressure.

Electrical Devices.

LEAD FUSE FOR ELECTRIC CIRCUITS.—F. H. KREBS, Romersgade 3, Copenhagen, Denmark. The object of this invention is to do away with the metal lining in fuse plugs for electrical construction, thus cheapening the manufacture. The fuse plugs are so constructed that they may be easily repaired when the wire is melted through. Heretofore when the wire has been melted, new plugs have generally been used, the repairing of the old plug being almost as expensive as procuring a new one.

Mechanical Devices.

MACHINE-GUN.—E. M. CAPPS, San Diego, Cal. This invention relates to machine guns of that class in which a flat series of barrels disposed side by side in a suitable frame are arranged to be reciprocated longitudinally, so as to cause their open breech ends to alternately telescope over a corresponding series of cartridges while the latter are being fired and then advance sufficiently to allow the empty shells to drop, the mechanism for feeding the cartridge exploding the same and reciprocating the battery of the gun barrels being all operated by a crank under control of the gunner. Various important improvements are provided in this invention.

LOCKING DEVICE.—J. W. GONCE, Kinderhook, Ala. The invention relates to improvements in what is termed "ball-and-socket" locking devices that may be employed for a variety of purposes—such, for instance, as for vehicle brakes, shaft couplings, car-couplings, driving gear for mowers, locks, etc.

POWER MECHANISM.—F. CLEMENS, Jr., Delta, Iowa. Mr. Clemens has invented an improved mechanism for transforming and transmitting power. It is particularly adapted to be driven by horse or other animal power and may be used with advantageous results for pumping water, sawing wood and various other domestic purposes.

COMBINED PRESSURE-FOOT AND NEEDLE-BAR LIFTING MECHANISM FOR SEWING-MACHINES.—W. O'DONNELL, Fall River, Mass. Improvements are provided in this invention which prevent movement of the presser-rod or needle-bar will be disconnected from the raising mechanism and lifted to a height sufficient to bring the point of the needle above the bottom of the presser-foot while the latter is at its highest position. The advantage of this is that there is no

danger of breaking the needle when material of stiff or cumbersome nature is being placed under the presser-foot, because it is impossible to accidentally start the needle, since when the needle is thus raised it is disconnected from the driving shaft.

FIRE-ESCAPE.—M. WACHTER, Trenton, N. J. This simple and economic form of fire escape comprises a pulley or drum, a support for the same, an endless rope or chain carried by the pulley or drum, and a brake arranged to automatically control the speed of the pulley or drum, thus causing the rope or chain to travel at a slow and safe speed, irrespective of the weight carried.

SURVEYING INSTRUMENT.—T. H. FERGUSON, Soochow, near Shanghai, China. By this invention Mr. Ferguson provides an improved instrument for measuring and automatically recording the distance traveled by a person, animal or vehicle, and the direction or directions of the route taken.

Railway Contrivances.

GRAIN-CAR DOOR.—A. L. HOOK, Coffeyville, Kans. The invention relates to doors for grain-cars and appertains to doors of this character held in slideways and adapted to be lifted therein with suitable mechanism supported above the door, and also adapted to be raised above the slideways and swung up to the top of the car, where they may be supported by a hook or other device.

STATION-INDICATOR.—J. S. ANDERSON, Brooklyn, N. Y. This device is adapted to indicate the stations or stopping-points of railway cars. It is particularly adapted for use in connection with street-railways to indicate the crossing streets, although obviously it may be applied to other railways.

Vehicle Accessories.

VEHICLE-SEAT BRACE.—G. W. VINSON, Paducah, Ky. An improved brace for supporting the seat and body of any vehicle is provided by this invention. In some types of vehicles the seat structure is commonly employed as the sole means for supporting the vehicle-top, and for such construction this invention will be found particularly useful.

FRAME FOR MOTOR-BICYCLES.—G. WAGNER and B. B. BIRD, St. Paul, Minn. The frame is arranged to carry the motor in a loop immediately back of the front wheel and below the center of the wheels within a short distance of the ground. The weight of the motor is thus equally distributed between the wheels and permits easy steering of the machine, at the same time protecting the rider from the oil and heat of the motor.

BICYCLE-PEDAL.—J. A. DECUR, New Orleans, La. This bicycle pedal combines the maximum lightness, strength, durability and cheapness. The invention is embodied in the peculiar construction of hubs adapted to rotate upon the spindle of the crank, and the manner of attachment to the hubs of toothed frames or frame-sections constituting foot-holds.

Miscellaneous.

FOLDING STRETCHER OR COT.—J. H. KOONS, Lehigh, Pa. This stretcher is simple and durable in construction and may be easily set up with the parts securely locked against accidental closing. It is adapted to be folded into a comparatively small space for storing or transportation purposes.

STEAM-GENERATOR.—P. STOLTZ, 138 Friedrichstrasse, Berlin, Germany. The invention relates to steam-generators having several groups of tubes connected together, whereby the adjacently disposed longitudinal tubes and the cross passages for connecting the ends of the latter with each other in each group of tubes form an undivided structure.

ASH-SIFTER.—E. WILLCOX, Yonkers, N. Y. This ash-sifter is adapted for ordinary or household use, or it may be made on a larger scale for use in large buildings. The device comprises few working parts which are efficient in operation and not liable to get out of order.

WALL WATER-HEATER.—J. H. MACKLEY, Pocatello, Idaho. Mr. Mackley has in this invention provided a novel construction of heater which can be readily supported against the wall in convenient position for use and connected with a water supply in such manner as to secure a circulation of the water through the heater.

CONSTRUCTION OF TANKS.—E. D. CHESTER, 120 Bishopgate Street Within London, England. The invention relates to a construction of tanks particularly such as are intended for use in cyanide or other solvent treatments of ores. By this improved method the tank may be more easily and expeditiously erected than other similar tanks heretofore used.

SHOVEL-SUPPORT.—J. BAKER, Carroll, Neb. This shovel support is designed to materially assist workmen in raising and delivering material operated upon. The principal object of the invention is to yieldingly support a shovel in such a manner as to relieve the workman of a portion of the burden of lifting the shovel and contents, also to enable the workman in stooping to bear a portion of his weight upon the shovel or support thereof.

SAMPLE CASE AND EXHIBITOR.—SAMUEL M. WIXCEL, Marcus, Iowa. Mr. Wixel is the inventor of an improved sample display case which is adapted for holding and exhibiting wall paper samples. Three exhibitor sections are provided, adapted respectively, to carry a sample of the wall, border, and ceiling patterns, and combined with each other in such a manner as to enable them to be readily and effectively folded into a case provided for the purpose.

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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FOR SALE.—Patented novelty Nos. 678,945 and 691,864 For further information address P. O. Box 51, Downingtown, Pa.
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The celebrated "Hornby-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. 3225.—For a power or hand machine for weaving wire fence.
Inquiry No. 3226.—For machinery for making pearl buttons.
Inquiry No. 3227.—For a small, strong machine for grinding rice into flour.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending

September 23, 1902,

AND EACH BEARING THAT DATE.

[See note at end of list about copies of these patents.]

Table with multiple columns listing inventions and their corresponding patent numbers. Examples include Accordion, Adding machine, Adhesive, Advertising device, Air compressing apparatus, etc.

(Continued on page 228)