

RECENTLY PATENTED INVENTIONS.

Agricultural Implements.

RAKE.—A. S. ELLIOTT, Mechanicville, Iowa. This rake is specially adapted for use in gathering cut stalks, which lay in windrows, into shecks, preparatory to burning or otherwise disposing of the stalks. The invention embodies an improved construction of the rake head in which the teeth are clamped against possible endwise or lateral displacement.

CULTIVATOR.—W. F. CAHOON, Sumrall, Miss. The cultivator embodies an improved form of bent teeth which operate in connection with the frame in such manner that they can be adjusted to throw to or from the plant, as may be desired. The teeth may be adjusted independently of each other and the implement acts to thoroughly pulverize the soil before it is shoved up to the plant.

Apparatus for Special Purposes.

STEAM-HEATING SYSTEM.—W. E. ROYS, Richmond Hill, N. Y. This is a gravity steam-heating system and it is so arranged that the user can control the amount of heat radiating from any radiator in the system to insure proper heating of rooms to a predetermined degree, and to provide a free return of the water of condensation to the steam generator.

APPARATUS FOR DEFECCATING LIQUIDS.—J. E. HATTON, Santo Domingo city, Santo Domingo. This apparatus is arranged to purify liquids, such as cane juices, and the construction is of such character that the work done will be automatic, thorough and continuous. Means are also provided for regulating and maintaining a uniformity of heat while the work is in progress, and also to regulate the alkalization of the liquid.

SOOT-CLEANER FOR STEAM-BOILERS.—WILLIAM EICHELBERGER, Windber, Pa. Mr. Eichelberger has designed an improved soot-cleaner for steam-boilers, whereby the deposits of carbon or soot on the interior surfaces of the boiler will be removed by the pressure of gaseous fluids, such as steam or air, and the accumulated soot conveyed and discharged into an ash-pit or any other place.

AIR-COOLING, DRYING AND PURIFYING APPARATUS.—W. L. MOORE, Washington, D. C. This apparatus will be found useful for cooling, drying and purifying the air in buildings and other places, and for keeping meats, produce or anything that requires low temperature. The air is passed through metal pipes which are surrounded by melting ice and chloride of sodium, chlorid of calcium, or other chemicals to lower the melting point of ice, and as the air passes through these pipes, it is caused to lose more of its heat and finally by gravity to be discharged through the bottom of the apparatus.

RETORT FOR WOOD DISTILLATION.—W. B. CHAPMAN, Bayne City, Mich. The retort and the setting for the same are adapted for use more particularly in wood distillation, for the production of wood-alcohol, charcoal and other by products. The retort consists of corrugated sheets of relatively thin metal anchored at suitable points along its length, which sheets by departing from straight lines and buckling or curving sidewise, more or less, from expansion and contraction, take up locally all destructive strains.

FURNACE FOR RETORTS.—W. B. CHAPMAN, Bayne City, Mich. The invention relates to a novel form of furnace and furnace setting for retorts, especially such as are used in the distillation of wood to produce wood-alcohol. The construction enables the use of solid fuel, instead of natural gas, whereby a uniform heating is obtained at much less cost and the furnace is useful in localities where natural gas cannot be obtained.

PULP-SEPARATOR.—J. K. McLAUGHLIN, An Sable Forks, N. Y. The invention relates to the manufacture of wood pulp by the sulphid process and provides an improved separator for pulp mills which is arranged to insure a quick and thorough separation of the stock from the acid.

Electrical Apparatus.

CIRCUIT-CLOSER.—D. F. MULKEY, Saddy, Tenn. This improved circuit-closer is particularly adapted for burglar alarm systems in banks, hotels, residences, etc. The circuit-closer may be closed by a person stepping upon it, or it may be operated by the opening of a door or window.

COMPOSITION FOR USE IN SECONDARY BATTERIES.—C. T. J. OPPERMAN, 2 Wynyatt Street, Clerkenwell, London, England. Mr. Oppermann is the inventor of improvements in secondary batteries which increase the efficiency and durability of the battery by rendering the active material harder and less liable to disintegration and insuring more complete and more uniform chemical action, so as to avoid buckling of the plates.

Engineering Improvements.

AUTOMATIC CURRENT-MOTOR.—JOHN ROEH, Oroville, Wash. This current-motor is adapted to convert the energy of a flowing stream into reciprocating or rotary motion for driving a pump or other mechanism. The motor can be used in shallow streams as well as in streams of considerable depth, and all the working parts are located above water, whereby they may be easily adjusted by the mechanic.

Hardware.

NUT-LOCK.—FRANK HART, Newcastle, Pa. This improved nut-lock is applicable to all classes of machinery wherein it is desired to lock a nut from turning. The device consists of a washer having flanges adapted to engage the side faces of the nut and anchor lugs, which prevent the washer from turning.

HAND DOWELING-GAGE.—J. CORLISS, New York, N. Y. This gage is particularly useful in building frames of doors, windows and the like, and insures the boring of holes with extreme rapidity and absolute accuracy. The instrument may be readily adjusted to work of all sizes, and may, therefore, be found useful in all branches of house-carpentry.

COUPLING FOR CABLES, ROPES, ETC.—T. DARLING, Marietta, Ohio. The invention provides a simple construction for coupling cables, which may be easily and quickly applied or removed. In well-drilling machinery the operating engine is often located remote from the scene of operations and an intermediate cable is employed. The attachment of the cable to the several parts or the union of lengths of the cable must be performed with exactitude to secure the best results, and this may be done with Mr. Darling's improved coupling.

Machines and Mechanical Devices.

MORTISING-MACHINE.—C. J. SEAQUEST, Silverlake, Wash. Mr. Seaquest in this invention provides a handy tool for woodworkers. It comprises a mortising machine which is of simple construction and may be actuated by hand in a very easy manner to accurately form mortises in woodwork.

AUTOMATIC GRAIN WEIGHER.—A. and J. H. McLEOD, Marietta, Kans. The grain weigher belongs to that class in which the grain is received in a stationary hopper and discharged therefrom into a movable weighing hopper so connected with the graduated weighing machine as to tilt the same when duly filled, whereupon the gate of the hopper is opened to allow discharge of its contents. The improvements lie in the receiving hopper and weighing hopper and means for cutting off the discharge of grain into the latter. A new construction is also provided in the gates of the weighing hopper and in the means for recording the weight of the grain.

COMBINED CORN COOKING AND CANNING MACHINE.—L. S. FLECKENSTEIN, Easton, Md. Mr. Fleckenstein has provided by this invention an improved machine for cooking corn and canning the same. This machine is distinguished by its simplicity of construction, economy of manufacture and ease and efficiency of operation.

MACHINE FOR CUTTING VEGETABLE ROOTS.—H. WEBB, Ashton, Mich. The chief or distinguishing feature of this improved apparatus for cutting vegetable roots lies in the employment of a hollow, rotary drum, having an eccentric portion and a series of cutters arranged on the periphery of the same in a peculiar manner, whereby great advantages are attained.

MACHINE FOR HANDLING VEHICLES.—G. E. and J. S. MYERS, St. Joseph, Mo. These inventors employ two trucks of peculiar construction and two inclined rails for said trucks whereby the wheels of a vehicle may be raised from the ground by merely backing the vehicle onto the trucks. The vehicle is automatically released from the trucks in pulling it off the same, and the trucks are left in position for jacking up another without requiring any special manipulation.

PHOTOGRAPHIC SHUTTER.—W. F. FOLMER, New York, N. Y. Through an especial arrangement of this shutter the exposure automatically diminishes as it reaches the sky line, giving the foreground greater exposure than the sky. The exposure may be accurately controlled from the interior of the box and means are provided for setting the exposure opening through the medium of a scale upon the focusing glass.

Railway Improvements.

RAIL-JOINT.—C. C. OSENBAUGH and R. L. GIBSON, Remington, Penn. These inventors provide an improved joint for joining railway rails, bridge trusses and the like. The joint will grip the meeting ends of the rails without the use of bolts and nuts, and will permit the expansion and contraction of the rails without danger of buckling.

Vehicles and Their Accessories.

WHEEL.—A. A. VEREL, 179 George Street, Glasgow, Scotland. The invention applies to wheels adapted for carriages of various descriptions and cycles, but may also be used for other purposes. It is more especially an improvement in that class of wheels in which some form of spring is interposed between the center or hub, and the spokes that extend to the rim or felloe.

STORM-CURTAIN.—J. W. SIMMONS, Bloomington, Ind. The curtain may be readily adjusted to protect the occupant of a vehicle from stormy weather, and is so arranged that it may be fastened back, when not required for use, in such a manner as not to interfere with the lowering of the top. The curtain will also yield to the movements of the top when the vehicle is in motion.

Miscellaneous Inventions.

STOVE.—W. HEUERMANN, Sedalia, Mo. The invention improves improved means for forcing the circulation of the products of combustion in order to secure the maximum heating results therefrom. These means are embodied in a novel construction and combination of parts.

STOVEPIPE-HOLDER.—J. S. RHODES, East Las Vegas, New Mexico. The stovepipe-holder is adjustable in its parts so as to adapt it for general service and permit its application to stovepipes of different diameters, and also enable its hooked engagement with chimney walls of different thicknesses, whereby to clamp and hold the pipe in an aperture in the chimney wall and prevent it from retrograde movement therein.

FOUNTAIN-PEN.—R. C. PAINE, Bethel, N. Y. The improved fountain-pen insures a ready and continuous flow of ink to the pen point and will automatically drain the pen point of all ink when the pen is held with the point upward. When the cap is screwed on, no leakage can take place, even though the pen be he carried point downward.

COMPOSITION FOR CLEANING AND PRESERVING METALS.—W. C. OBERWALDER, New York, N. Y. By means of this invention silver or other metals may not only be thoroughly and easily cleaned of discoloring oxides and other accumulations adhering thereto, but the subsequent formation of these oxides may be effectively prevented.

WHEELBARROW.—W. A. HOUSE and W. F. HOSKEN, Covington, Ky. The wheelbarrow is adapted for use in carrying articles of different sizes such as milk cans, barrels, stoves, etc. The handles are adjustable toward and from each other for the purpose of accommodating them to the different sizes of articles to be carried.

BOTTLE-NIPPLE.—PHILIP GAUSS, New York, N. Y. The nipple comprises a non-collapsible mouthpiece, so that the opening or duct through it cannot become closed by external pressure or by vacuum occurring in the bottle. The mouthpiece is oval in cross-section, adapting it for the child's mouth, and it is given a proper degree of elasticity.

FOLDABLE STOOL.—P. R. ANTON, Topeka, Kan. By this invention Mr. Anton provides a stool of novel construction which will afford a strong, light and comfortable seat when adjusted for use and which may be folded into a very compact package for storage or transportation.

STIRRUP-STRAP.—L. P. WELLMAN, West New York, N. J. Stirrup-straps as usually employed are made of leather, and in use the strap is doubled and hung on the saddle with the buckle end, forming a thick, unsightly bunch. The purpose of this invention is to overcome this fault by providing single straps, preferably made of metal in hinged sections. The lower portion of this strap holds the stirrup at an angle to the rider's foot and at an angle to the side of the animal.

SACK-RACE STRUCTURE.—J. J. WEGNER, Brooklyn, N. Y. This invention provides a new amusement in which cars appearing to carry sacks are adapted to travel up and down undulating tracks. The sack sections, which contain passengers, are pivotally mounted in the cars and are spring-controlled in two opposite directions, enabling the occupants by energetic movements of their bodies to add to the velocity of the cars to a greater or less extent. This, if two adjacent tracks are provided, will permit parties traveling on one track to race with others moving upon an adjoining track.

FUNNEL.—J. DE ST. LEGIER, Hicksville, N. Y. The funnel or strainer is so constructed that the straining member may be quickly and conveniently secured in a straining position in the body of the funnel, and as readily secured when desired in a position which will leave unobstructed communication between the body and neck of the funnel.

SMOKE-CONSUMER.—W. T. KEOGH, New York, N. Y. This smoke-consumer belongs to the type in which steam is used. The construction is very simple and efficient, and does not contain any part which will readily be burned out. The smoke-consumer has also the advantage that it can be readily applied to machinery now in operation with comparatively few structural changes.

MEASURING DEVICE.—CHRISTIAN CHRISTENSEN, Escanaba, Mich. This device is more particularly designed for use of opticians and eye specialists to fit spectacles and eyeglasses by obtaining accurately the necessary measurements—such as pupillary distance, temple distance, height or depth of the nose angle of the nosepiece, length of the temple, and width at the base of the nose—thus insuring proper fitting of the eyeglasses or spectacles to a wearer's face.

STRETCHER.—F. X. AIGNER, Jersey City, N. J. This sectional stretcher is so constructed that the body portion may be parted beneath a patient and the patient laid upon a bed without being turned or unduly jarred when the stretcher is removed. The construction is very simple, and the stretcher may be used with or without attached blankets.

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

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