RECENTLY PATENTED INVENTIONS.

Pertaining to Apparel.

WAIST.—EVA MCG. SHIVELY, Boulder, Col. A purpose of this invention is to provide a waist that is a complete substitute for a corset so far as the appearance of the figure is concerned, and which can be worn without any injurious effects, since no steels, bone, or featherbone are employed, and absolutely no stiff material.

Electrical Devices.

ELECTRIC REGULATOR.—T. M. PUSEY, Kennett Square, Pa. The improvement relates to regulators of the kind used for automatically regulating the voltage and amperage of currents employed for various commercial purposes. It relates further to construction and arrangement of the various parts, whereby the efficiency of the apparatus is greatly increased and the mechanism greatly simplified.

STRAIN-EQUALIZER.—J. W. WASH, Carrollton, Ky. The equalizer embodies details of construction which may be employed to effect equal draft upon a plurality of wires or cables, and particularly to equalize draft strain exerted upon a plurality of telephone or telegraph wires strung overhead upon suitable supports, so that all may be pulled taut by a single rope or chain. It is an improvement on the equalizer formerly patented by Mr. Wash.

MULTIPLE TELEGRAPHONE SYSTEM.—G. MORIN, Habana, Cuba. The more particular object in this case is to provide a number of separate telegraphone disks so arranged that they may be brought successively into action either automatically or by hand, as desired. It further relates to means whereby the various disks may be readily taken out of the machine and replaced by other disks.

TRANSMITTER.—J. T. CURTIS, Bement, Ill. The construction of this transmitter presents quite a number of advantages. The metallic cup is merely sprung into position, which avoids soldering, brazing, or electro-plating, riveting, or using screws. By only using two lugs (at the top and bottom of the transmitter), so as to bind upon the diaphragm at only two points in the circle represented by its outer edge, the sounds are greatly improved. This result comes from the limitation placed upon the movements of the diaphragm being reduced to a minimum and so distributed as to greatly lessen the interference phenomena always present to a greater or lesser extent in the diaphragm.

ELECTRIC SIGNAL SYSTEM.—A. A. BARBERA, Philadelphia, Pa. The system is under the immediate control of a towerman and used in connection with a movable semaphore arm for indicating to the engineer of a moving locomotive the position of the arm, by flashing lamps or energizing an alarm in the cab. In case the arm is disabled, the towerman may transmit to the engineer signals equivalent to those which would be transmitted to him if the arm were in proper working order. Means permit the testing of the electrical connections by the towerman to ascertain their condition.

ELECTRIC MOTOR.—W. SHURTLEFF, Moline, Ill. Mr. Shurtleff's invention is in the nature of a new form of single phase alternating current electric motor, and it consists in the novel construction and arrangement of the poles of the field magnets and windings thereof. The object is to make a strong starting torque and also to provide means for reversing the direction of the rotor.

Of Interest to Farmers.

PEN AND PENCIL HOLDER.—W. R. CRAWFORD, JR., Raleigh, N. C. The purpose in this instance is to provide novel details of construction for a pen and pencil holder, and means for adjustably connecting the holder with suspenders for trousers in a convenient position for ready access thereto as occasion may require.

SEED-PLANTER.—W. F. RODIES, Manchester, Iowa. The improvement has reference to seed planters, and the object of the inventor is to provide a device which will afford means for sowing or planting different kinds of seeds. More specifically, the device is intended to plant corn, and at certain intervals with the corn, pumpkin seeds or seeds of a similar plant.

HAY-LOADER.—A. H. BOSWORTH, Fall River Mills, Cal. This implement elevates hay by the rake that gathers it and the hay is also deposited upon a wagon by the same rake. When the rake is elevated and relieved from the tension of its hoisting cables, it will be automatically started upon its return movement, and the steering can be controlled by the movement of a single lever.

FERTILIZER-DISTRIBUTER.—H. N. HARPER, Monroe, La. The invention is an improvement in fertilizer distributers and particularly in that class of such devices adapted to be applied to the rear part of a farm wagon box and to be attached and detached without any change in the construction of the box.

GAGE FOR SEED-PLANTERS AND CLAMPING MEANS THEREFOR.—D. J. MAHONEY, Witoka, Minn. A gage and means for attaching the same regulate the depth to which the runner or furrow opener shall be permitted to enter the soil and also regulate the depth at which seed shall be deposited. The device can be readily applied to or removed from any of the wheel planters commonly in use without changing the same.

CUTTER-BAR FOR HARVESTERS.—W. S. CLARK, Harrisville, W. Va. The improvements are in cutter bars and cutter blades in which the latter are made in sections which are readily removable for sharpening, or replacing when worn or broken, the object of the invention being to produce a bar and appurtenances which shall be strong and one in which no rivets are necessary.

DISK CULTIVATOR.—F. J. LEWIS, Guadaloupe, Cal. Two series of flat disks are arranged in front of the concave disks and serve to resist the side draft of the latter while acting also as circular colters by which the soil is sliced vertically in parallel rows. The concave disks are arranged, like the colters that precede them, in two series, and on separate horizontal shafts, pivoted and adapted to swing horizontally in order that the disks may be set at inclination to the cultivator's line of travel, and thus caused to dislodge more or less soil.

Of General Interest.

CIGARETTE-BOX.—G. B. MOSLEY, Paris, Tex. This simple and convenient box or kit is for use in enabling persons who roll their own cigarettes to carry tobacco, cigarette paper, and matches in such a manner as to preserve the tobacco against the influence of moisture and to promote the operation of preparing the cigarette.

ORE-CONCENTRATOR.—F. E. MCKINLEY, Guthrie, Okla. The invention is an improvement in concentrators for precious metals and for other use in placer mining and for concentrating gold from dry, or almost dry, material by the application of air under pressure to the material; or, if desired, water under pressure may be substituted for air.

COAL-BUNKER FOR MEN-OF-WAR.—H. A. KAUERMANN, 42 Realschulstrasse, Duisburg, Germany. The known methods of arranging men-of-war bunkers show various disadvantages: owing to the great drop, the coal is very much broken; the trimming of the coal in the bunkers is greatly impeded; by opening the bunker-doors the stoke-holes are in great danger of being flooded; the stability of the vessel loses greatly by the coal being taken from the lower bunkers only. The inventor avoids these and other disadvantages.

TURFING-NEEDLE.—S. H. FERRIER, Troy, Ore. The object here is to provide a device, improved especially with respect to means for threading the needle and feeding the silk or thread, for the purpose of inserting loops through the cloth as close as possible. These loops are or may be afterward sheared to form a plush or pile fabric. A gage adjusts depth of stitch, and the device may be threaded quickly and economizes use of silk and is adapted for rapid operation.

PROCESS FOR THE PRODUCTION OF A DIGESTIBLE FLOUR FROM BRAN.—T. SCHLÜTER, JR., Foerderstedt, near Magdeburg, Germany. According to the invention the bran is subjected to the so-called breaking process, for the enlargement of the surface of the bran, so that a flour is obtained which is highly suitable for bread-making and imparts to the bread containing bran converted according to the improvement valuable properties hitherto not present.

BULKHEAD AND JETTY CONSTRUCTION.—J. A. HOWLAND, Sea Bright, and W. H. DE NYSE, Long Branch, N. J. This hydraulic engineering improvement has for its aim the provision of a bulkhead or a jetty construction, more especially designed for use along the coast in harbors, rivers, and other waterways and arranged to form a lasting protection against the ravages of the sea, teredos, and other destructive causes.

SEA-GROIN.—J. A. HOWLAND, Sea Bright, and W. H. DE NYSE, Long Branch, N. J. This invention relates to hydraulic engineering, and its object is to provide a sea groin or like structure designed for use along the coast in harbors, rivers, and other waterways, and arranged to form a permanent structure capable of withstanding the ravages of the waves, teredos and other destructive causes.

HOLDER FOR VIEWING TRANSPARENCIES.—B. J. FALK, New York, N. Y. This invention has reference to certain improvements in holders for use in supporting transparencies in such a position that the light from any suitable source may shine directly thereon, and the image clearly seen in a mirror or other reflector.

CHEESE-COVER.—F. A. VOGT, Anderson, Ind. The cover affords protection to cheese from dust and insects, and also incloses the usual cheese cutter which may remain in place for service as occasion requires, and suspending means are provided for the cover to enable its convenient removal from the cheese when this is desired.

ALBUM.—W. THOMPSON, New York, N. Y. The invention provides a device suitable for inclosing photographic films and such similar articles, whereby the same will be protected from dust and against injury in handling, transport, etc. Further, the construction of two envelops from a single blank of sheet material, as paper; and the provision of a cover for the album, also made of a single piece.

Hardware.

PLUMB AND LEVEL.—F. O. ROURKE, Shawnee, Ohio. This instrument combines in one structure the functions of both a plumb bob and a spirit level and by its novel construction and arrangements of parts provides a very convenient and effective tool for the use of bricklayers, stone masons, carpenters, and for other uses in building operations.

LATCH.—E. KRAFFT, New York, N. Y. The latch is more especially designed for the doors of toilet rooms and places generally where privacy is desired, and is for use in connection with the spindle of the door knob which operates the latter in a manner to indicate whether or not the room is occupied; this operation, however, being entirely under the control of the party on the inside.

Heating and Lighting.

GRATE-BAR.—G. S. SERGEANT, Greensboro, N. C. In the present patent the invention is an improvement in grate bars and has for an object the provision of a novel construction of sectional grate bar in which the bars composed of detachable sections will be united end to end by interlocking means integral with their respective sections.

GAS-LIGHTER.—L. B. PRAHAR, New York, N. Y. The purpose of the inventor is to provide an economic form of portable lighter, in which a flame is created by manually directing alcoholic vapors to a catalytic igniter, in such manner as to effectually prevent the possibility of an explosion or ignition of the vapor in the reservoir or storage chamber of the lighter.

Household Utilities.

STOVEPIPE AND FLUE-STOPPER FASTENER.—L. F. CULVER, Harvey, Ill. The fastener is for use in retaining either the stove pipe in the flue opening or a stopper over the flue when the latter is not in use. Means are provided for preventing the drawing or pushing of the pipe into the flue beyond the required point, and also means adapting fasteners of the same size to be applied to chimneys or flues of varying thickness.

CURTAIN-POLE.—W. B. LITTLE, New York, N. Y. The object of the inventor is to provide a device by means of which curtains and the like can be artistically and effectively hung or draped, and which provides means for drawing the curtains together or for separating them. The pole supports a curtain or the like at a plurality of points, so that the top of the curtain can be held above the curtain pole and conceal the latter from view.

Machines and Mechanical Devices.

FLYING-MACHINE.—A. V. WILSON, Bar Harbor, Me. This invention pertains to improvements in flying machines, the aim being to provide a machine of simple and comparatively inexpensive construction, so arranged that it will operate with or against the wind and that may be readily directed laterally and also up and down.

VIBRATING BED.—J. A. SEEBER, Portland, Ore. In the present patent the invention is an improvement in vibrating beds, and the object of the inventor is to impart a continuous vibration to the bed. By the mechanism provided the cam plate is adjusted with respect to the box whereby to vary the extent of the vibration of the bed.

REGISTERING DEVICE.—F. DE PARIS, Montreal, Quebec, Canada. The purpose here is to provide a mechanical register, adapted for application to electric, gas, or water meters, or for counting the revolutions of any machine on which it may be used as a tachymeter, or for analogous purposes, and to so construct the machine that it will register accurately unit by unit the quantities measured in their passage through a meter.

RESETTING DEVICE FOR ADDING-MACHINES.—J. J. WALSH, Elizabeth, N. J. The object of the invention is to provide a device for adding machines, arranged to permit the user to quickly raise the numeral disks to zero position when desired. It relates to machines such as shown and described in Letters Patent of the U. S., formerly granted to Mr. Walsh.

BOILER-TUBE PRESS.—J. C. TASSEY and J. B. HARRINGTON, Nashville, Tenn. This invention is an improvement in boiler tube presses for pressing boiler tubes into tube sheets. In operation the base block may be revolved followed by a nut to swage or bead the end tube, the turning of the block also operating to revolve the roller carriage, the rollers revolving against the end of the tube in the forming of the bead.

ROTARY STAMP-MILL.—P. J. LONERGAN, Denver, Col. This new stamp mill is of the type in which vertically reciprocating stamps are arranged to operate upon the ore in a subjacent mortar for the purpose of crushing the same preparatory to extracting the valuable metals contained therein. It is capable of being operated either in a small installation by horsepower or equally efficient on a large scale when operated by power.

CALCULATING-MACHINE.—C. L. NELSON, Seattle, Wash. One of the purposes of this invention is to provide a machine that will tabulate, i. e., produce or print in color form the figures added by the mechanism of the machine and produce at the foot of the column the sum total of the figures of the column in a different color of ink than that used to print the individual figures in the column.

AUTOMATIC BUTTON CUTTING AND SHAPING MACHINE.—W. S. WATSON, Memphis, Tenn. The machine is arranged to automatically cut and dress the face of the button and at the same time sever it from the shell. To prevent the button from sticking in the cutting tool the facing tool is used as a punch while sliding the cutting tool up on the facing tool. Convenient and quick removal of the above named worn out or dull tools and replacing the same by proper ones can be done while the machine is running.

WINDOW.—S. U. BARR, New York, N. Y. The window is completely dust proof and air tight, and arranged to permit of opening and closing a sash. The sash can be locked in place in whatever position it is left, that is, open, partly opened or closed. The sash can be conveniently and quickly placed in position in the window frame or removed therefrom for repairs or other purposes. The invention relates to windows such as shown and described in Letters Patent of the U. S., formerly granted to Mr. Barr.

Prime Movers and Their Accessories.

VALVE MECHANISM FOR ENGINES.—A. GOOD, Manhattan, Kan. In the present patent the invention has reference to the improvements in the valve mechanism of reciprocating engines, having in view in a device of this character the provision of novel means for maintaining the speed of the engine substantially uniform.

TIMER.—C. N. ISAACS, Newark, N. J. This invention relates to improvements in timers adapted for use in connection with internal combustion engines, for closing the circuit through the igniter to produce the explosion, and the object is to so construct the timer that he circuit will be closed a substantially uniform length of time for each explosion, irrespective of the speed at which the engine may be running.

Railways and Their Accessories.

CAR-FENDER.—M. BOGUSHEFSKY, New York, N. Y. This fender is such as carried by street railway cars or trolley cars in order to prevent accidents. Its construction comprises a transverse bar normally held in an elevated position above the cradle at or near the ground line, and just before the cradle a movable part is provided which operates automatically to depress the bar and draw the same toward the cradle in a way to throw the body standing before the cradle rearwardly so that it will fall into the cradle.

RAIL-FASTENER.—O. A. HALL, Omaha, Neb. Permanent means are provided for fastening, clamping, and locking a rail in alinement with or to a tie or roadbed without injuring or defacing the tie or roadbed and means for adjustment for different widths of rail bases and widths of gage without defacing or injuring the tie or roadbed or the necessity of providing new ties or bars whenever the rail sizes or widths of track gages are changed; also to allow use of any form of tie or roadbed, such as concrete, composition, metal, wood, etc., which can be set permanently in place and rails renewed or changed as to sizes whenever desired.

Pertaining to Recreation.

AMUSEMENT APPARATUS.—P. BRAEN and J. BRAEN, North Paterson, N. J. The object of the present invention is to provide, in combination with a wheel or similar device, having reversely arranged spiral tracks connecting at the center of the wheel, or other similar device, means for automatically transferring a car or the like to one of the tracks as it is discharged from the other track, whereby the car may be made to repeatedly travel through the wheel as the latter revolves.

Pertaining to Vehicles.

STREET-SWEEPER.—W. S. BEEMAN, Kansas City, Mo. The invention has in view the production of a sweeper carried by and forming a part of a motor vehicle, in which the sweeping mechanism is driven from the vehicle motor. The sweepings are collected and delivered into the vehicle body, the latter being shiftable on the running gear of the machine to carry it to and from a dumping position. The sprinkling is done in advance of the brush, and the brush and connecting mechanisms are raised upon the vehicle body when it is to be thrown out of action.

Designs.

DESIGN FOR A LAP LUNCH-BOARD.—L. VAN PUTTEN, Holland, Mich. The board is square with rounded corners, the lap end being slightly hollowed out to fit the body of the luncher. An ornamental beaded square is in the center.

DESIGN FOR A WATER-HEATER.—W. J. FINN, Scranton, Pa. This design presents a perfectly flat water heater, in the shape of a pear with the stem end cut off about two-fifths. A graceful ornamental pattern about one-half the area of the top is scolloped out of the center.

DESIGN FOR A SHORTHAND NOTE-SHEET.—W. J. GUY, New York, N. Y. This design provides an oblong sheet with waved, dotted and solid lines running across the space from edge to edge, except that the dotted and solid lines end a relatively slight distance from the left-hand edge of the border line of the design.

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