MECHANICAL INVENTIONS.

A bearing for spindles of spinning machines has been patented by Mr. Albert R. Sherman, of Pawlucket, R. I. This invention combines with the spinning bolster and case a ball or detachable stiff vertical supporting pin with free lateral movement, the pin or ball stepped at its lower end in the bottom of the bolster case, and the oil cushion between the bolster case and the bolster being preserved in the plane of the whirl.

AGRICULTURAL INVENTIONS.

A combined corn planter and fertilizer distributer has been patented by Mr. William Cassill, of Hamden Junction, Ohio. This invention covers im. provements on a former patented invention of the same inventor, making the machine more convenient in use and more reliable in operation.

ed by Mr. Stephen E. Williams, of Rockport, Mo. The frame is mounted on a stationary axle with rotating wheels, and hinged to it is a frame with rotating axle and fixed drive wheels, so the drive wheels can be raised from the ground; there are also hinged marker bars which can be readily raised and lowered.

A corn harvester has been patented by Mr. John E. Smith, of Wilmington, Del. The cutters are arranged to cut two rows of corn at one passage across the field, the outer cutter, or the one most remote from the team, being in advance of the inner one, there being also an evener chain for bringing the buty ends of the two rows of stalks together to be bound as fast as they arc cot.

A harrow attachment for plows forms the subject of a patentissued to Mr. Enoch Calvin Eaton. of Pinckneyville, Ill. An obtuse angled bar earrying teeth on its outer arm is so combined with a turn plow. another bar bent at both ends having teeth adapted to work reaswardly, as to form a harrow rigidly attached to the plow beam, to pulverize and level the soil. cutting down the high parts of the furrow slice and filling the low places.

MISCELLANEOUS INVENTIONS.

An oil filter has been patented by Mr. Dan iel S. Neiman, of Fargo. Dakota Ter. It is a tank with a funnel at its upper end and a series of shelves with layers of charcoal, lime, and woolen cloth, with a steam coil surrounding the lower end of the funnel.

A hair spring regulating pin for watches has been patented by Mr. George F. Johnson, of Aurora, Ill. In combination with the regulator and its pins is a spring, so attached and arranged as to close by its tension on or against the under or exposed ends of the regulator pins.

A paper box machine has been patented by Mr. Maurice Marques, of New York city. 'I'here are male and female cutting dies, with expanding plates, and means for operating them, so the paper box may be formed of a single blank cut from a sheet of pasteboard or other suitable material.

A pump has been patented by Mr. Luis G Careaga y Saenz, of Puebla, Mexico. It is a double piston pump, with rigid pistondisk and rod arranged eccentrically, with a segmental plate attached to the disk and rod, a flanged imperforate rubber plate, and various othernovel features.

A clock striking mechanism has been patented by Mr. Lucien Diacon, of Chaska. Minu. The object of this invention is to simplify the construction and reduce the cost of clocks intended to strike the hours and their subdivisions, as well as prevent their becoming easily disarranged.

A horse detacher has been patented by Messrs. John E. Stevenson and Joseph Forsyth, of Brighton, Tenn. This is an improved contrivance of trace hooks and means for unbooking the traces therefrom, to provide simple and efficient means of escape from the horses when they become uncontrollable.

A line throwing gun has been patented by Mr. Jeremiah Williams, of Hartford, Ky. There are side openings in the barrel about the middle of its but preventing its escape, the up and down movement length, and there is a cone held to turn on the barrel of the washer effectively acting to force soapy water on which the line secured to the dart is held, the dart | through the clothes. having a wad held on its butt end by a screw.

etc., has been patented by Mr. Joseph A. Conwell, of are provided with convex sides facing each other, the Vineland, N. J. This invention consists of a roller bars having grooves in the ends increasing in depth with an annular groove at each end inclined inward from the outer to the inner edges, to permit inclining from the rim toward the central axis, making pockets the clamp bars to the screw rods, the invention being for the mucilage flowing down the ends of the roller. an improvement on a former patented invention of the

A plumb bob has been patented by Mr. George Morrison, of Elmira, N. Y. In its upper hol. | A marker for weather boards, flooring, and

A circular saw lifter has been patented by Mr. William G. Baumgardner, of Filer City, Mich. It is a yoke with a handle pivoted on each of its parallel bars, with a cam lug on one side of the pivot adapting the two handles to form gripping bars, between which the toothed edge of the saw may be inserted, so as to be gripped and held firmly.

A hand truck has been patented by Mr. oseph Annin, of Brooklyn, N.Y. The truck frame is of castiron, with jaws cast in one piece therewith, and having parallel extensions for receiving clamping bolts, the handles having sockets or clamping jaws for securing them tightly, and so they may be couveniently attached and removed.

An automatic safety brake for horse pow ers has been patented by Mr. William L. Remington, of Meriden. Conn. This invention consists principally of a system of levers applied to the ordinary brake lever in such manner that a downward movement of the A check row corn planter has been patent- main horizontal lever of the system will shove forward the brake lever and apply the brake.

A safe has been patented by Messrs, John W. Johnston, of Richmond, Va., and J. H. Rogers, of Washington, D. C. An envelope is made to cover the entire safe, the envelope being wholly or partially adjustable, with means for adjusting, and an electro magnetic locking device for precluding the movement of the envelope except within certain intervals of time.

A carpet fastener has been patented by Mr. James A. Waters, of New York city. A hooked clamp plate is employed, journaled in suitable blocks or standards, and acted upon by springs, for grasping and holding the edge of the carpet, so the carpets may be held without injury and easily taken up and replaced, avoiding the use of tacks, hooks, etc.

A rope supporter for hay and other carriers has been patented by Mr. Richard Tennani, Jr., of Woodland, Wis. It is made with a pulley to receive the rope, bars, and wheels to carry the pulley, and spring catches to engage with the carrier, preventing the rope from sagging, and lessening the space traveled by the horse at each trip.

A mowing machine knife has been patented by Mr. John M. Hamblin, of South Union, Ky. This invention provides a light, strong serviceable knife bar and knives, which may be worked a long time without excessive gumming and with little power and which will allow of a quick, easy, and accurate sharpening of the knives when dulled.

A door hanger has been patented by Mr. George H. Burrows, of Somerville, Mass. It is made with a traveling bar with a longitudinal slot to receive the wheel, and long rabbets in its lower side to receive and travel upon the journals of the wheel, the improvement being especially applicable to car doors, hough useful for other purposes.

A hoot or shoe polishing machine bas been patented by Mr. Arthur A. Sparks, of Trenton, N. J. It consists of a frame mounted loosely on a shaft and carrying revolving brushes, which may be swung around to the work by turning the frame in vertical plane, the brushes being revolved by belts leading from a fixed pulley on the shaft.

A spoon bowl has been patented by Mr. Henry Nickolds, Sr., of Taunton, Mass. The bowl of this spoon by this construction, instead of having a sharp edge, has its margin bent outward or extended in the manner of a flange, or made with what is styled a returned edge, so it will present a more smooth and agreeable surface to the upper lip.

A pole attachment for wagons has been patented by Messrs. Alfred T. Hawk and Joseph W. Scout, of Preston, Ohio. It is made with a socket bar secured to the hounds at the forward side of the axle by clips, and a socket bar secured to the forward part of the bounds by a keeper, and properly strengthened by brace rods, so two poles can be readily applied to the wagon.

A washing machine has been patented by Mr. Merritt W. Palmer, of Holland, Mich. This invention covers certain improvements in clothes washers where the water is forced through the clothes by air being compressed in the vessel, a valve admitting air

A belt clamp has been patented by Mr. A distributing roller for mucilage, gum, Eleazer Ainsworth, of Wilmington, Del. Clamp bars same inventor.

A folding skeleton gun stock has been p tented by Mr Frederick Schwatka, of Vancouver Bar racks, Washington Ter. The skeleton extension is pivoted to swing upon a smaller stock of gun or pistol, and arranged so that when closed it fits underneath the stock; there is also a spiral articulated construction of the skeleton stock, with fastenings for it closed and extended, securing great compactness and providing for a large extension of the stock.

A numbering attachment for printing presses forms the subject of four patents issued to Mr. Albert R. Baker, of Indianapolis, Ind. The press has an additional cylinder, with numbering heads properly mounted therein, and appropriate mechanism for operating them, the cylinder being in such relation to the regular cylinder that the numbers in the numbering heads will come in contact with the paper thereon as the cylinders revolve, with various other novel features.

A wheelbarrow has been patented by Mr. Joseph Annin, of Brooklyn, N.Y. The body can, by neans of clamps, be secured to the handles at any desired distance from the wheel, and a stiff flanged brace sustains the tray in its normal shape, so the barrow can be used in carrying burning coals about gas works, C. F. Bollwitt, 170 Orleans, New Orleans, La. melted refuse about iron works, etc. The same inventor has also obtained another patent covering an improved metal wheelbarrow tray, with two angular side and end pieces, forming a flaring body, riveted togetber with the bottom.

A belt fastener forms the subject of two atents issued to Mr. George W. Southwick, of Southwick, Mass. It consists of a rigid plate with prongs and eyes on both edges, the longitudinal axes being parallel with the edges from which the prongs project, so the strain is distributed over the plate in all its positions; also, if the belt begins to rip, an additional plate may be fastened on the belt, and the loops connected with the other, the object being to unite the ends of driving belts, so they need not be adjusted and tigbtened as often as with the usual lacing.

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