

ENGINEERING INVENTION.

A dumping car has been patented by Mr. Augustin C. M. Anguin, of Raincy, near Paris, France. Combined with a truck having transverse shaft with a worm, and the laterally movable body with a transverse rack on its under side engaging the worm, are hooks and gudgeons for limiting the outward movement and forming the axis on which the body turns in dumping, with other novel features, to enable the bodies of cars to be displaced in either direction laterally.

AGRICULTURAL INVENTIONS.

A check rowing attachment for corn planters has been patented by Mr. Orren A. Shotts, of Osceola, Iowa. It is an attachment capable of being elevated bodily from the ground and adjusted laterally and by rotation, the drop being automatically operated by the action of the check wheels, the invention covering various novel features of construction and combination of parts.

A plow has been patented by Mr. Edward B. James, of Thomasville, Ga. It may be arranged as a double plow, or two single plows adjusted to plow two furrows of different depths simultaneously, or it may be used as a cultivator, having two plow beams and adjustable fastening devices for connecting them, with pivoted standards supported by offset braces, the handles having an adjustable support for holding them at different heights.

MISCELLANEOUS INVENTIONS.

A device for lowering coffins has been patented by Mr. John T. Meredith, of Buchtel, Ohio. This invention provides a means whereby the coffin may be supported over the mouth of the grave, and lowered therein, the apparatus being strong, cheap, and durable.

A post hole digger has been patented by Mr. James H. Humphrey, of Platte City, Mo. The machine consists of a grip, lever, disk rod, and disk, and is especially designed to remove the earth quickly from the digger, and when digging to assist it in retaining very wet or dry earth.

A line protector for vehicles has been patented by Mr. Frank C. York, of Salina, Kansas. It is intended to prevent the lines of the harness in driving from being caught under the ends of the thills, the thill ferrules having loops in which straps are fastened by snap hooks and by buckles to the collar.

A scarf attachment has been patented by Mr. Louis Fischer, of New York City. It is a combined neckband keeper and catch made from a blank of sheet metal, having a tooth or catch pin formed integrally therewith and folded to form a tubular guide for the band, the device being adapted to be secured to the scarf, stiffening and making a fastening for it.

A ditching machine has been patented by Mr. Archibald Stewart, of Keota, Iowa. It has a hollow cone with spiral slots, along the edges of which knives are arranged, an elevating screw or auger within the cone raising the earth cut away by the knives, the drawing forward of the machine over the ground simultaneously forming the ditch by a continuous operation.

A saw buck has been patented by Mr. Charles B. Guy, of Postville, Iowa. In combination with the ordinary form of saw buck are pivoted levers with curved upper ends, whereby the wood billets may be clamped in the crotch of the buck by an easy and natural movement of the sawyer's foot, and may be quickly released to shift the wood along the buck.

A show case has been patented by Mr. James H. Flagg, of Brooklyn, N. Y. It has a series of lower compartments, and an upper chamber having an inclined bottom and a glass or transparent cover, with a removable drawer in the upper chamber having a series of compartments, so that samples will be in full view of the purchaser and the salesman, but need not be disturbed to deliver goods.

An end gate for wagons has been patented by Mr. Munn Davis, of Wahoo, Neb. This invention provides a device occupying but little space, to facilitate the dumping of wagons and carts, dump cars for coal or ore, steam shovels, excavators and dredgers, the device being adapted to dump the load by a single movement, and while the apparatus to which it may be attached is in any given position.

A spring clasp for gloves has been patented by Mr. Sigmund Bernhardt, of New York City. It has two side pieces, with several holes for securing them to the glove at the placket, between the lining and the outer part of the glove, the side pieces being hinged by a pin at the point of opening, and one of the side pieces having attached thereto a flat pointed steel spring to hold the clasp closed or open, as desired.

A drawer has been patented by Mr. Joseph H. Knaus, of Fayette, Mo. The invention covers a combination by which an endless strand, of cord, wire, or chain, passes around pulleys at the front and rear of the casing, at opposite sides of the drawer opening, whereby the binding of the drawer in moving it in and out of its casing will be prevented, and the friction obviated.

A combined screen and storm door has been patented by Messrs. Louis Guthrie and William G. Baumgardner, of Filer City, Mich. In a door having a screen-covered opening there is a rabbeted moulding around three edges of the opening, a panel sliding in the ways formed by the rabbets of the moulding, while a fourth piece of moulding is secured to the outer edge of the panel and completes the border.

A filter has been patented by Mr. William T. Nesbet, of Schell City, Mo. It is intended as a rain water filter, by which the water from the roof is strained and filtered before entering the cistern, and has a vertically placed cylinder, within which is a smaller perforated cylinder, to act as a strainer, arranged above the filter proper, the arrangement being such that the strainer and filter can be readily cleaned.

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