

ENGINEERING INVENTIONS.

A car coupling has been patented by Mr. George L. Walton, of Bougere, La. The invention consists in providing an ordinary drawhead with elliptic springs placed longitudinally, to hold a coupling link in a horizontal position, to enter a corresponding drawhead in an approaching car, to be coupled automatically.

A railroad signal has been patented by Mr. Theodor R. A. Weber, of New York city. Two signals are combined by rods with each other and with mechanism at the sides of the rails for operating the rods, whereby the signals are automatically set to danger by a train and are not changed until the train leaves the section.

A dumping car has been patented by Mr. John Scully, of South Amboy, N. J. Combined with the car body and doors at the bottom of the car is a vertically movable bar, whereby the doors may be opened and closed by a positive movement of the bar longitudinally, which gives a positive down thrust upon the doors, or by which they may be held at any desired angle to regulate the discharge.

A railroad gate has been patented by Messrs. Henry Cluever, of Albany, and Nicholas Thelen, of Schenectady, N. Y. The construction is such that as a train of cars approaches the gate the engine wheels strike down a lever which rocks a shaft that operates wires to draw down sliding bars, that allow the gate bars to swing down by their own weight, the gate being then opened by the wheels in passing.

A car coupling has been patented by Mr. James H. Pollard, of Clarence, Mo. This invention covers novel features of construction and combination of parts for a coupling which will work automatically with a link of an approaching car, having an ordinary link and pin drawhead, and which can be worked with drawheads of different heights, and the coupling and uncoupling can be done from either side or the top of the car.

MECHANICAL INVENTION.

A chuck has been patented by Mr. Edwin F. Lindsey, of Bristol, R. I. The invention consists principally in providing the jaws with spring seats, or supports for opening them, to receive the shank of the tool, the jaws having also inclined outer surfaces to act in connection with a bevel in the chuck core for closing the jaws upon the tool, with other novel features.

AGRICULTURAL INVENTION.

A fertilizer distributor has been patented by Mr. James Van Sieten, of Jamaica, N. Y. It is so made that the discharge opening can be closed, the stirring mechanism thrown out of gear, and the plows raised from the ground, by a single lever, and all returned to working positions by operating a treadle, which can be adjusted to distribute more or less fertilizer to the acre.

MISCELLANEOUS INVENTIONS.

An oil cup has been patented by Mr. John Davies, of Peckville, Pa. It is designed to be readily adjusted for delivering more or less oil, and thicker or thinner oil, or to prevent delivery altogether if required, being adapted for oiling journals, steam cylinders, and other frictional surfaces.

An ice cream freezer has been patented by Mr. Charles Hedges, of Grinnell, Iowa. This invention relates to a wagon or vehicle adapted to carry ice cream in freezers, and covers a mechanism driven from the vehicle wheel or axle for operating the freezer as the vehicle travels along the road, the vehicle being adapted to deliver milk or other produce.

A calculator has been patented by Mr. Luther M. Carmical, of Jonesville, Va. It is so made with nine parallel bars, each bearing nine equidistant marks, by adjusting certain rings on the bars, to indicate the multiplier, and selecting tablets whose first numbers correspond to those of the multiplicand, then moving the device from right to left over the tablets, the product will be indicated by the number over which the rings pass.

A corset clasp has been patented by Mr. Francois F. Delyp, of Paris, France. It is a plate apertured and bent to form a hook, with a plate apertured and provided with a tongue, making a clasp of which only a small portion of the metal projects, it being mostly covered by the trimming, the clasp being one which can be rapidly and conveniently operated, and which cannot damage the garments or injure or pinch the skin.

A target trap has been patented by Mr. Franklin J. Curran, of Stanford, Ky. It is for casting the frangible targets used in shooting matches, and the target holding and releasing devices are supported on the outer end of a casting lever, in such way that the targets will be cast in different vertical planes, to be readily distinguishable from all points, the invention covering various novel features in construction and combination of parts.

A machine for cutting leather has been patented by Mr. George W. Gross, of Oxford, N. J. It is a readily adjustable machine for cutting leather into strips and straps of various widths, combining with feed rolls, a horizontally adjustable gauge plate in front of the rolls, adapted to regulate the width to be cut, and a vertically movable plate adapted to bear on the leather being cut, the machine being calculated for hand or power operating.

An automatic stock water tank has been patented by Mr. Richard H. Barber, of Galena, Kansas. It has end troughs for horses and cattle, too high for use by smaller animals, and side troughs for sheep, hogs, etc., in which the water is furnished as the animal steps upon a treadle in going to the trough, the water always being freshly furnished and the tank easily inclined; the invention is an improvement on a former patented invention of the same inventor.

A wagon brake has been patented by Mr. Edward M. Allen, of Stafford, Md. It is an improvement on a former patented invention of the same inventor, providing a simple and convenient mechanism by which the oscillating body support, operating the brake, may be connected with the team-attaching device, so that when the team is stopped on a level or when ascending a hill side, the part may be so adjusted that any forward motion of the team will serve to apply the brake with great force.

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