

compartments, one or more of which are adapted to contain ice, and one or more of which contain only clear water, said water being free to flow from one compartment to another, substantially as and for the purpose specified. 2nd. A cooler which consists of a tank divided into two or more compartments by grating, screen, or their equivalent, said grating being adapted to separate the ice from one or more of said compartments without impeding the passage of the water, substantially as and for the purpose specified. 3rd. In a cooler, the combination of the tank, screen or grating, and means to hold said screen or grating in position in said tank, substantially as and for the purpose specified.

### No. 17,269. Improvements in Horse Collar Pads. *(Perfectionnements aux colliers de cheval.)*

Edward L. McClain, Greenfield, Ohio, U.S., 13th July, 1883; 5 years.

*Claim.*—1st. As an attachment to a horse collar pad or other harness pad, and as a means of adjustably attaching a pad to a horse-collar or other part of harness, the elastic single-roll or single-curve spring S constructed, arranged, attached and operating substantially in the manner shown or described. 2nd. The combination, with a horse collar pad, of elastic single-roll springs S, substantially in the manner shown or described and for the purposes set forth. 3rd. As an attachment to a horse collar pad, and as a means of adjustably attaching a pad to a horse collar, or other part of harness, the elastic two-roll spring S constructed, arranged, attached, and operating substantially in the manner shown or described. 4th. The combination with a horse collar pad, of an elastic two-roll spring S, substantially in the manner shown or described, and for the purposes set forth.

### No. 17,270. Improvements in Snow Ploughs. *(Perfectionnements aux chasse neige.)*

Robert Shorts, Portage La Prairie, Man., 13th July, 1883; 5 years.

*Claim.*—1st. In a railroad snow-plough, a series of cross-bars attached to one or more endless belts caused to travel by the action of a suitable motor carried on the plough, for the purpose of raising snow from the track to an elevation, whence it may be discharged clear of the track, substantially as and for the purpose specified. 2nd. In a railroad snow-plough having flaring sides to gather in the snow, the combination of cross-bars arranged to travel upwardly for the purpose of conveying the snow gathered in by the plough to an elevation, whence it may be discharged clear of the track, as specified. 3rd. In a railroad snow-plough having a series of cross-bars arranged to travel upwardly upon, and supported by the frame forming the track-plough, the combination of a frame carrying similar cross-bars and hinged to the top of the track-plough, so as to receive the snow discharged therefrom and convey it to a higher elevation, substantially as and for the purpose specified. 4th. In a snow-plough in which the snow is gathered from the track by the upward movement of travelling cross-bars, the combination of a receiving box D having an adjustable bottom formed of the plates F, and spouts G, arranged and operating substantially as and for the purpose specified.

### No. 17,271. Improvements in Faucets. *(Perfectionnements aux robinets.)*

Michael Magin, Rochester, N.Y., U.S., 13th July, 1883; 5 years.

*Claim.*—In combination with an ice-box, a beer-faucet provided with an outer non-conducting jacket and an inner cold air space, substantially as and for the purposes set forth. 2nd. In combination with an ice-box, a beer-faucet provided with an outer non-conducting jacket and an inner cold air space having one or more orifices communicating with the external air, substantially as and for the purposes set forth.

### No. 17,272. Lubricator for Loose Pulleys. *(Boite à graisse pour les poulies folles.)*

Ezra W. Van Duzen, Newport, Ky., U.S., 13th July, 1883; 5 years.

*Claim.*—1st. The combination, with an oil receptacle or shell having an orifice in its side, of a plug or stopper for closing this orifice, having a channel opening at its side and at its inner end so that, when the plug is partially out of the orifice, the receptacle can be filled with the lubricant without separating the parts, as and for the purpose set forth. 2nd. In combination with a hollow ball or shell, a plug having an opening in its side by which the oil is supplied to the chamber within the ball or shell without removing the plug as set forth. 3rd. The combination, with a hollow ball or shell having a screw threaded orifice, of a plug having a screw threaded hollow shank and a longitudinally disposed filling opening, as and for the purpose set forth. 4th. The plug having the hollow inner end and the opening through its shank, as and for the purpose set forth. 5th. The plug or stopper having a filling orifice or opening and formed with the securing and feeding stem, as and for the purpose set forth. 6th. The combination, with a shell or ball having an orifice in its side, of a combined plug or stopper for this orifice, and a securing and feeding stem having a filling orifice or opening in the side of the plug, as and for the purpose set forth.

### No. 17,273. Improvements in Log Rollers. *(Perfectionnements aux alimentateurs des scieries.)*

Lewis T. Kline, Alpena, Mich., U.S., 13th July, 1883; 5 years.

*Claim.*—1st. In a device for rolling logs from a skid to a log carriage, the actuating of the log turner by the direct application of steam, substantially as set forth. 2nd. In a log-turner and in combination with the skids A, the shaft D carrying two or more log-turners or series of arms E, F and G, which are actuated by the direct application of steam to one of said arms, substantially as specified. 3rd. In a log-turner and in combination with the guides A and shafts D, one or more series of arms E, F and G, cylinder H, and connecting

rod H, when constructed, arranged and operating substantially in the manner and for the purposes described.

### No. 17,274. Improvements in Car-Couplings. *(Perfectionnements aux accouplements des chars.)*

John C. Blocher, Lima, Ohio, U.S., 13th July, 1883; 5 years.

*Claim.*—1st. A draw-head having upon its top and rear part a boss D, which projects vertically above the draw-head, and said boss provided on its front side with a vertical slot c, which has within it on each side a vertical groove g, in combination with a coupling-pin having a lower straight end i to engage with the link and provided above the lower straight end with a rear projecting part r to slide in the slot on the front side of the boss, and said rear projecting part having a key whose ends slide in the vertical grooves, as set forth. 2nd. A draw-bar having an upward projecting boss provided with a vertical slot c, and within the slot on each side a vertical groove g closed at the upper end, and a key-hole, in combination with a coupling-pin provided with a rear projecting part to slide in the slot, and having a key whose ends slide in the grooves, as set forth. 3rd. The combination and arrangement of a draw-head having a notch 4 in its top adjoining the pin-hole, an upward projecting boss provided with side-grooves closed at the top, and a coupling-pin provided with a key whose ends slide in the vertical side-grooves, as set forth. 4th. A draw-head having in its top a slot d, and at the rear end thereof an intersecting slot with a vertical wall f, and in the bottom of its mouth a horizontal seat which, with the vertical wall, forms a right-angled notch 6, in combination with a coupling pin having a rear projection provided with a lower horizontal edge l and a rear vertical edge et, as set forth.

### No. 17,275. Improvements in Car-Couplers. *(Perfectionnements aux accouplements des chars.)*

Job Thighpen, Greenville, Ala., U.S., 13th July, 1883; 5 years.

*Claim.*—1st. The combination, with the coupling-hook, of the hooked lever, both of which are pivoted upon a common fulcrum, the said lever having an elongated slot in its forwardly projecting portion and adapted to bear at its hooked end against the back of the hook, substantially as and for the purpose specified. 2nd. The combination, with the open-ended draw-bar having, in one of its chambers or slots, the upwardly curved projection or cam, of the coupling hook and hooked lever bearing against the coupling-hooks and having its forwardly projecting portion provided with an elongated slot, both of which (the coupling-hook and lever) and pivoted upon a common fulcrum, substantially as and for the purpose set forth. 3rd. The combination, with the draw-bars A of different cars, said draw-bars having open ends or slots across which are arranged pins or bars, of the coupling hook and the hooked lever, both being fulcrumed upon one of said pins while the lever rests against a cam projection of a draw-bar, bears against the back of the coupling-hook and is provided, at its forwardly-projecting end, with an elongated slot, substantially as and for the purpose set forth.

### No. 17,276. Improvement in Horse Shoes. *(Perfectionnement des fers à cheval.)*

Harold Holland, Lynn, Mass., U.S., 13th July, 1883; 5 years.

*Claim.*—1st. The body A having the thickened raised portions K provided with the grooves i i, at their inner corners, the plate D provided with the shoulders j j and groove x, the calk B and pin n, constructed, combined and arranged to operate substantially as set forth. 2nd. The body A having the thickened or raised portions K provided with the grooves i i at their inner corners, the plate D provided with the shoulders j j and groove x, the calks C C B and pins a a n, constructed, combined and arranged to operate substantially as described. 3rd. In a horse-shoe having a detachable toe-calk and a removable plate for protecting the frog of the horse's foot, a pin adapted to fasten or lock both the toe-calk and plate, substantially as shown and described.

### No. 17,277. Improvements in Animal Slinging Railways. *(Perfectionnements aux appareils de suspension dans les abattoirs.)*

Richard J. Davis, Cambridge, Mass., U.S., 13th July, 1883; 5 years.

*Claim.*—1st. In combination with the hanger terminating at bottom in a clasp or chair, having opposite side walls to enclose and support the rail in an upright position, a set-screw screwing through one of said walls and adapted to clamp the rail against the opposite wall. 2nd. In combination the hanger terminating at bottom in clasp or chair to uphold and steady the rail, the rail with its groove or indentation and the set-screw screwing through one side or wall of the clasp and adapted to enter the groove of the rail, and to clamp such rail between it and the opposite side or wall of the clasp.

### No. 17,278. Improvements in Windmills. *(Perfectionnements aux moulins à vent.)*

Harvey W. Hill, Pontiac, Mich., U.S., 13th July, 1883; 5 years.

*Claim.*—1st. The combination, with the wind-wheel A and turntable D, of the arm K, the wind-wings I and connections, substantially as described, between said wings and a governor deriving its motion from the rotation of the wind-wheel, substantially as and for the purposes specified. 2nd. The combination, with the wind-wheel A, shaft B, a governor for controlling the movement of the wheel, and the gear wheel E, of the pinions F G I, all meshing in the order given for the purpose of operating the governor and conveying power from the wheel, substantially as described. 3rd. The combination, with the wind-wheel A, of the turn-table D, arm K, pivoted wings L, rod M, bell crank N, rod O, slide P and a governor deriving its motion from the rotation of the wind-wheel. 4th. The combination, with the wind-wheel A, the turn-table D, arm K, wings L, rods M O, bell crank N, slide P and a governor, of the guide-plate R and pin c on the slide P moving in said guide-plate, substantially as described.