

nected therewith and extending into the aisle C, substantially as described. 8th. A live-poultry car comprising in combination a car A, divided internally into tiers of compartments having hinged drop-decks G and opening laterally of the car, and a longitudinal aisle C within the car, separating the tiers of compartments into two sets B and B', normally closed to and controllably accessible from the aisle, substantially as described. 9th. A live poultry car comprising in combination a car A, divided internally into tiers of compartments having hinged drop-decks G, and hinged supports K for the free ends of the drop-decks, and opening laterally of the car, and a longitudinal aisle C within the car, separating the tiers of compartments into two sets B and B', normally closed to, and controllably accessible from the aisle, substantially as described.

### No. 29,434. Steam Shovel. (*Pelle à vapeur.*)

Andrew Moyers, Port Arthur, Ont., 3rd July, 1888, 5 years.

**Claim.**—1st. The combination of a pivoted inclined way 32, a hinged shovel 40 mounted thereon, a hoisting apparatus comprising a shaft 14, gear 15 and drum 16 connected by a cord 45 to the shovel, and a sliding cross-head 36 connected to the lower end of the inclined way, and operated from the hoisting apparatus, substantially as herein shown and described. 2nd. The combination of a pivoted inclined way 32, a truck 37 mounted thereon, a shovel 40 hinged to the truck, a hoisting apparatus comprising a shaft 14, gear 15 and drum 16 connected to the shovel by a cord 45, and a sliding cross-head 36 connected to the lower end of the inclined way, substantially as herein shown and described. 3rd. The combination, with a bed-plate 10, a horizontal frame 11 pivotally mounted thereon, and a supporting frame 12 pivotally connected to the horizontal frame, of an inclined way 32 pivoted to the supporting frame, a threaded shaft 30, a nut 34 carried by the shaft, a cross-head 36 connected to the nut and to the lower end of the inclined way, a truck 37 mounted upon the way, a shovel 40 connected to the truck, a shaft 14, a gear 15 and drum 16 on said shaft, a cord 45 extending from the drum to the shovel, and means for operating the said drum and shaft, substantially as herein shown and described. 4th. The combination, with a main shaft 19, of fixed gears 20, 21 carried thereby, a threaded shaft 30, two gears 22, 23 loosely mounted thereon, one of which 22 is engaged by the gear 21 of the main shaft, a gear 15 interposed between the other gear 20 of the main shaft, and the other loosely mounted gear 26 of the threaded shaft, a double clutch section 27 mounted between said gears 22, 23, and an operating lever 28, substantially as herein shown and described. 5th. The combination, with an inclined way 22 provided with stops 42, 43, in its upper and lower ends, of a truck 37 mounted upon said way, a shovel 40, and a triple-leaved hinge 39 connected to the shovel and to the truck, substantially as herein shown and described.

### No. 29,435. Combined Railway Buffer and Automatic Coupling. (*Tampon et attelage automatique de chemin de fer.*)

Joseph W. Oakman, Brooklyn, N. Y., U. S., and Joseph C. Oakman, Sidney, N. S. W., (assignees of John Brown, Redfern, N. S. W.), 3rd July, 1888, 5 years.

**Claim.**—1st. A combined railway buffer and automatic coupling, in which a helical barb or head is presented to a slot in an approaching buffer or coupling, is partially revolved by said slot passes through said slot and recovers its normal position, substantially as herein described and explained. 2nd. A combined railway buffer and automatic coupling having a slot in its head, and a helical barb or head projecting from said face and free to revolve, and both adapted to engage with a barb or head, and a slot respectively in another buffer coupling of similar construction, substantially as herein described and explained. 3rd. The combination and arrangement, with a helical barb or head free and adapted to partially revolve, of a stop and counter-balance to regulate the extent of motion, substantially as herein described and explained. 4th. A combined railway buffer and automatic coupling, consisting essentially of the head A having slot A', the barb B with helical head B', and the counter balance C with stop C' and weight C', substantially as herein described and explained and as illustrated in the drawings.

### No. 29,436. Apparatus for Treating Vegetable Substances for Making Paper Stock. (*Appareil de traitement des matières végétales pour la pâte à papier.*)

Adelbert Chambers, John A. Manning and William M. Peckham, Troy, N. Y., U. S., 3rd July, 1888, 5 years.

**Claim.**—1st. The combination, with a digesting-reservoir provided with a lower steam-supply pipe or pipes, of an auxiliary reservoir connected with said digesting-reservoir by one or more pipes leading exteriorly from its upper end to the upper interior of the auxiliary reservoir, and one or more pipes connecting said reservoirs at or near their lower ends, the latter pipes being severally supplied with a pump and valves, substantially as described. 2nd. An apparatus for treating vegetable substances for making paper-pulp, consisting of a close reservoir provided with an upper float waste dome, lower central steam-supply pipe, and inlet liquor-pipes connected with the outlet liquor pipe or pipes and supplied with a pump or pumps, substantially as described. 3rd. The combination, with a digesting-reservoir provided with a lower steam-supply pipe, of an auxiliary reservoir provided with an upper steam-supply pipe, and connected at its lower end with the lower end of said digesting-reservoir by pipes, one or more of which are supplied with a pump, substantially as described. 4th. In apparatus for digesting vegetable and other substances, the combination, with the digesting-reservoir, of a perforated blow-off pipe located in the upper part of its interior, and provided with valved connections leading exteriorly of the reservoir, substantially as described. 5th. The combination, with a digesting-reservoir, of an auxiliary reservoir connected therewith by a valved pipe supplied with a pump, and a perforated blow-off pipe having valved connections leading exteriorly of the reservoir, substantially as described.

ed. 6th. The combination, with a digester reservoir having steam and pump-supply pipes of a blow-off pipe located in its upper part, an exterior condensing reservoir and valved connections leading from said blow-off pipe to said condenser, substantially as described.

### No. 29,437. Wash Stand Bowl. (*Cuvette de lavabo.*)

Charles I. Kellogg, Washington, D. C., and R. W. Williams, Roxbury, Mass., assignees of Nathan O. Bond, Fairfax Court House, Va., U. S., 3rd July, 1888, 5 years.

**Claim.**—1st. The combination, with a bowl having a discharge opening in its bottom, of an adjustable elastic cover suspended outside of said bowl, and swinging in approximately the plane of said opening, said cover being adapted when in one position to close said discharge opening. 2nd. The combination, with a bowl having a discharge opening in its bottom, of an elastic cover lying outside of said bowl, and revoluble about a vertical axis, and an adjustable elastic support on which said cover is mounted, whereby said cover may be brought into position to close said discharge opening, and may in such position be pressed against the bowl only by its own elastic force and that of said support. 3rd. The combination, with a bowl having a discharge opening in its bottom, of an adjustable elastic cover lying outside of said bowl, and adapted when in one position to close said discharge opening, and moving substantially in the plane of said opening, a longitudinal reciprocating rod attached to said cover and imparting its own reciprocal motion thereto, and means, substantially as shown and described, for imparting motion to said rod, substantially as and for the purpose set forth. 4th. The combination, with a bowl having a discharge opening in its bottom, of an elastic ball lying below said discharge opening, a swinging rod on which said ball is mounted, the plane of motion of said rod being approximately tangent to said bowl, and means, substantially as shown and described, for actuating the free end of said rod and bringing said ball into or withdrawing it from a position immediately below and in contact with the walls of said opening, substantially as and for the purpose set forth. 5th. The combination of a bowl B having an opening b in its bottom, the rod c swinging in a plane substantially perpendicular to the axis of said opening the ball C, mounted on the free end of said rod, the guide D, and means, substantially as shown and described, for moving the free end of the rod c, substantially as and for the purpose set forth. 6th. The combination of the bowl B having the discharge opening b in its bottom, the swinging rod c oscillating in a plane intersecting the axis of said opening, and the elastic ball C mounted thereon, the rotating rod H and the lever G rigidly mounted thereon, and the rod F connecting the free end of the lever G with the free end of the rod c, whereby the rotation of the rod H actuates the free end of the rod c, substantially as and for the purpose set forth. 7th. The combination, with the bowl B having an opening b in its bottom, of the swinging rod c oscillating about a vertical axis, the ball C mounted thereon, the nut E having sockets e in its walls, the rotating rod H and lever G, and the rod F having one of its ends connected with the free end of the lever G, and provided at its opposite bifurcated end with inwardly turned points entering the sockets e in the nut E, substantially as and for the purposes set forth.

### No. 29,438. Seal Lock. (*Serrure à cachet.*)

The Trans-Continental Car Lock and Seal Company, (assignees of John W. Norris, the assignee of Charles E. Davis), Chicago, Ill., U. S., 3rd July, 1888, 5 years.

**Claim.**—1st. In a seal-lock, the combination of a lock-frame arranged and adapted to sustain in operative position a frangible sealing-plate, a suitably formed and perpendicularly and axially movable bolt also sustained by said frame, adapted, as set forth, to secure a link, hasp, or strap upon a staple or keeper, and means for securing said bolt vertically in such position from which it cannot be withdrawn or removed without being primarily turned upon its axis and thereby caused to come in contact with, and demolish the frangible sealing-plate when in operative position, substantially as shown and described. 2nd. In seal-locks, the combination of a lock frame arranged and adapted to sustain in operative positions a frangible sealing-plate, a perpendicularly and axially movable bolt also sustained by said frame, so formed as to admit of the locating of the sealing-plate upon a plane perpendicularly within the arc of travel of its largest diameter, and devices, substantially as described, adapted to secure the bolt perpendicularly in position from which it cannot be removed without being first turned upon its axis and thereby caused to engage with, and effect destruction of the sealing-plate, substantially in the manner and for the purpose shown and described. 3rd. In seal-locks, the combination of the lock-frame, a shell forming part thereof adapted to sustain in fixed position a frangible sealing-plate D, an axially and perpendicularly movable hasp, link, or strap securing bolt having an irregular form, substantially as shown, adapted when turned upon its axis to engage with and effect destruction of the sealing-plate, and a tumbler or spring arranged to suitably engage with said bolt and to prevent perpendicular movement thereof unless primarily moved upon its axis, substantially as shown and described.

### No. 29,439. Machine for Reducing Railroad Rails. (*Machine à réduire les rails de chemins de fer.*)

Sidney McCloud, Chicago, Ill., U. S., and Charles E. Doolittle, trustee for the Ontario Rolling Mill Company, Hamilton, Ont., 3rd July, 1888, 5 years.

**Claim.**—1st. In a machine for reducing railroad rails, a pair of rolls for effecting the pass substantially as at P, said rolls having grooves in which the head of the rail is compressed, and having an unobstructed open space at the side of said grooves wherein the lateral expansion of the metal can freely occur, substantially as described. 2nd. In a machine for reducing railroad rails, a pair of rolls for effecting the pass, substantially as at P, the one roll having a broad