

wardly-projecting eyed ends secured at the lower ends to the cross-pieces, and at their upper ends to shackles projecting from the forward end of the body, as and for the purpose shown and set forth.

No. 25,341. Meat Safe. (*Garde-Manger*.)

Robert J. Shaw, Folkeston, Eng., 12th November, 1886; 5 years.

Claim.—1st. Constructing the framework of a meat safe, substantially as hereinbefore described and shown. 2nd. Fitting such a framework with double perforated panels, and packing the same with broken charcoal, all substantially as hereinbefore described and shown. 3rd. Fitting safes when made in the ordinary manner, and likewise existing safes, with double perforated panels, and packing the same with broken charcoal, all substantially as hereinbefore described.

No. 25,342. Stump Extractor and Tree Carrier. (*Efforceau Arrache-Souche*.)

William H. Hall, Battle Creek, Mich., U.S., 12th November, 1886; 5 years.

Claim.—1st. In a device for extracting and transporting trees, an axle having rigidly attached thereto a load B, in combination with a platform E and forward axle A, substantially as shown and for the purpose set forth. 2nd. The axle A having a board B rigidly attached thereto, a rotary bar secured to the axle and provided with a pawl and ratchet and connecting chains, a platform provided with hooks for engagement with said chains and a forward axle, substantially as shown and for the purpose set forth. 3rd. In a device for extracting and transporting trees, an axle having a board rigidly attached with central portion thereof, and means for attaching said board to the trunk of the tree a block F attached to the upper end of the bar, substantially as shown and for the purpose set forth.

No. 25,343. Hoof Pad. (*Bourrelet de Sabot*.)

William Mulloy, Great Falls, N. H., U. S., 12th November, 1886; 5 years.

Claim.—1st. The improved detachable hoof pad or guard, substantially as described, composed of the two sections flanged, arranged and pivoted together, and provided with the expansion spring, all being essentially as set forth. 2nd. The detachable hoof pad or guard composed of the two sections flanged, arranged and pivoted together and provided with the expansive spring and the locking stud, all being essentially as represented.

No. 25,344. Heating Drum. (*Poêle Sourd*.)

Robert Martin, Arthur, Ont., 12th November, 1886; 5 years.

Claim.—1st. The hood A of the shape shown mounted on lip a, and having a drum B attached, the said drum being provided with a cover c containing an aperture large enough to enclose the stove-pipe C, substantially as shown and for the purpose specified. 2nd. The combination of the hood A and drum B, with a branch E for the purpose of conveying hot air to apartments to be heated, substantially as shown.

No. 25,345. Car-Coupling. (*Attelage de Char*.)

David L. Richards, St. John, N. B., 12th November, 1886; 5 years.

Claim.—1st. The combination of the draw-bar having in rear of its flaring mouth, the chamber provided with the inclined bottom, and also having passages for the shackling pin and its link holder, and latch to move in with the shackling pin, its chambered projection or link holder, and the gravitating latch spanning and pivoted to the said link holder and arranged therewith and with the draw-bar, essentially in manner and to operate substantially as set forth. 2nd. The combination of the draw-bar having in rear of its flaring mouth, the chamber provided with the inclined bottom, and also having passages for the shackling pin and its link holder, and latch to move in with the shackling pin, its link holder recessed on its opposite sides, as described, and with the gravitating latch pivoted to such link holder and furcated in its upper part, and having such part bent or arranged at a right angle or thereabouts with the shank of such latch, all being substantially as described. 3rd. The link holder chambered on its opposite sides, and provided with the vertical slot, in combination with the gravitating latch having its upper part furcated and bent at or about at a right angle to the shank, and connected to the link holder by a pin going through the slot, and the prongs of the said upper part, all being substantially as set forth. 4th. The draw-bar provided with the grooved or chambered projection, the link-receiving chamber and the passages for the shackling pin, and its link holder and latch to work in, in combination with the said pin link holder and the gravitating latch, constructed and arranged and applied, substantially as set forth. 5th. The draw-bar notched or recessed in the abutment of its mouth, and connected by a chain to the coupling link, and provided with the link receiving chamber, in combination with such link and with the coupling pin, the link holder and the gravitating latch, constructed, arranged and applied, substantially as set forth. 6th. The combination of the link holder provided with the machine dr, with the gravitating latch provided with the incline d and connected with such link holder, substantially as described. 7th. The link chamber decreasing in width and depth from its top downward, as described.

No. 25,346. Clothes Drier. (*Séchoir à Linge*.)

Daniel J. Smith, Canton, Ohio, U.S., 12th November, 1886; 5 years.

Claim.—1st. The combination, with the head A having a screw B, and flanges or ears a provided with extensions G and cross-bars d, a, of the adjustable arms F having slots F₁, and pins f, and the pins e, substantially as described. 2nd. The combination, with the post or standard b having conical cap C, of the head A provided with conical socket B, having a notched ring D, and the hook E engaging said ring, substantially as described.

No. 25,347. Horseshoe. (*Fer à Cheval*.)

Alfred L. Stevens, Darien, Conn., U. S., 12th November, 1886; 5 years.

Claim.—1st. The combination, with the body, of a horseshoe having recesses ¹ and holes ⁴ through it, of calks having bases F corresponding with said recesses, and lugs H corresponding with said holes, and pins P adapted to be driven through the corresponding holes in the body of the shoe and the calks, whereby the latter are securely held in place. 2nd. The body of the shoe having recesses G and holes K, M and N, in combination with the calks having bases F, and lugs H having holes L, registering with the holes through the shoe, and pin P adapted to be driven through the corresponding holes in the shoe and lugs. 3rd. The body of the shoe having a recess G, hole K and hole M, the toe of the shoe, and a toe calk having a base corresponding with said recess, and lugs H with hole L through it, and a pin P adapted to be driven from the front entirely through the lug and the shoe. 4th. The body of the shoe having recesses G, holes K and N, and slots O, into which holes N lead, in combination in the calks having bases corresponding with recesses G, and tapering lugs H having holes L through them, and pins P adapted to be driven in at the heel of the shoe and extending through lugs H and into slots O. 5th. The body having recesses G adapted to receive the calks, and support them as shown, tapering vertical holes K, tapering longitudinal holes M and N, and slots O, in combination with calks having bases F and lugs H with tapering holes L, and tapering pins P adapted to engage the corresponding holes through the shoe and lugs.

No. 25,348. Dry Closet. (*Laitrine*.)

Isaac D. Smend, Toledo, Ohio, U.S., 12th November, 1886; 5 years.

Claim.—1st. The combination, in a building, of a permanent or fixed fireproof vault D, having one or more fireproof hoppers arranged directly over said vault, a ventilating or exhaust shaft T communicating with the vault at one end, and an air inlet C communicating with the exterior atmosphere at its opposite end, the construction and arrangement being substantially as shown and described. 2nd. The combination, in a building, of a foul air gathering room A, provided with a door or doors for cutting off communication with the rooms of the building, the vault D connected to the ventilating shaft T, and the direct air inlet C provided with a door a, said parts being arranged to operate, substantially as described, whereby the air for supplying the current through the vault can be taken from within or without the building at pleasure. 3rd. The metal hopper J, provided with the metal cover G having the flange I arranged to shut down within the mouth of the hopper, substantially as and for the purpose set forth. 4th. The metal hopper J, provided with the lateral projection or flange f and the wooden seat g, in combination with the metallic cover G provided with the flange l, arranged to fit within the mouth of the hopper, substantially as and for the purpose set forth. 5th. In combination with the vault D, the metal cover a, place c and non-combustible hopper J, provided with a non-combustible or metallic cover G, substantially as shown and described. 6th. The combination, in a building, of a vault D for a dry closet, an air inlet C at one end for the admission of air from the exterior of the building, an exhaust or ventilating shaft connected to the vault at its opposite end, and a fan N or equivalent means for creating a draft through the vault and shaft, when the building is not heated, substantially as set forth. 7th. In combination, the vault D, having an air inlet C at one end for the admission of air from the exterior of the building, an exhaust or ventilating shaft L connected to the vault at its opposite end, and a furnace or heater H located within the shaft, and having its doors arranged to be accessible from the exterior of the shaft, substantially as shown and described. 8th. In a vault for dry closets, the arrangement of porous pipes a, in combination with drain pipe d, substantially as shown and described. 9th. In combination with the vault D of a dry closet, the porous pipe a, covered with a layer of sand or similar porous material, substantially as and for the purpose set forth.

No. 25,349. Fruit Picker. (*Cueilleur*.)

Walter W. Burgess, Toronto, Ont., 12th November, 1886; 5 years.

Claim.—A fruit picker consisting of a basket constructed preferably of galvanized sheet metal but may be of other material, and having a wire fringe around the upper edge of the basket, and a socket underneath the bottom thereof to receive a pole for operating the same, substantially as shown and described and operating as set forth.

No. 25,350. Lock Hinge. (*Penture-Arrête*.)

Oliver H. Taylor, Brooklyn, U.S., 12th November, 1886; 5 years.

Claim.—The combination, with the lock hinge B, B₁, D, of the dog M pivoted to the part B₁, and having an arm M₁ formed in an arc having the pivotal B₂ for a centre, and provided with an engaging notch m, and means for holding said dog against an upward movement sufficient to disengage the two parts of the hinge when the dog is in operation, as set forth.

No. 25,351. Steam Engine. (*Machine à Vapeur*.)

Henry H. Westinghouse, Pittsburgh, Penn., U. S., 13th November, 1886; 5 years.

Claim.—1st. In a single acting compound engine, the combination of a crank case, a high pressure cylinder, and a low pressure cylinder of larger diameter connected to said crank case, and pistons fitting said cylinders and open to the crank case through surfaces of said area on their sides adjacent thereto, substantially as set forth. 2nd. In a single acting compound engine, the combination of a crank case, a high pressure cylinder and a low pressure cylinder of larger diameter connected to said crank case, a trunk fixed to the low pressure piston on the side adjacent to the crank case, and corresponding in diameter with the high pressure piston, and a head closing the