No. 21,353. Head and Tail Saw Mill Dog.

(Clameau de Scierie pour Tête et Bas.)

Williams R. Parsons, Harriston, (Assignee of Oron B. Thompson, Melancthon,) Ont., 1st April. 1885; 5 years.

Claim.—1st. The combination of the steel chisels, *b*, *b*, and the chisel bars, Figs. 2 and 3, substantially as and for the purpose hereinbefore set forth. 2nd. The combination, with the steel chise s *b*, *b*, and the chisel bars, Figs. 2 and 3, of the ratchets *g*, *g*, and flanged pinions *d*, *d*, *d*, *d*, substantially as and for the purpose hereinbefore set forth.

No. 21,354. Car Door Hanger.

(Coulisse de Porte de Char.)

Edward Y. Moore, Evanston, Ill., U.S., 1st April, 1885; 5 years.

Claim.—1st. The combination, with the car-door, its rollers and rail, of the horizontal roller levers, the vertical hand-lever, and means by which the vertical lever is connected with the inner ends of the horizontal levers, substantially as described. 2nd. In a car-door hanger, a roller or wheel operated through connecting devices by the act of opening and closing the door, in combination with a stop or rest connected with roller-support and co-acting with the wheel or roller, for opening and closing the door readily, and holding it stationary while at rest, substantially as described. 3rd. In a car-door hanger, a roller or wheel carried by a sliding plate operated through connecting devices by the act of opening and closing the door, in combination with a stop or rest connected with the roller-support and co-acting with the wheel or roller, for bringing the roller or wheel into engagement with the track or guide-rail, and keeping the wheel or roller from engagement with the track or guide rail when the door is at rest, substantially as and for the purpose set forth. 4th. In a car-door hanger, a sliding plate *a* carrying a wheel or roller *b*, and a stop or rest *n* co-acting with the roller, in combination with a lever located sliding door and connected with the sliding plate, whereby the wheel or roller will be brought into engagement with the track or guide-rail as the door is opened or closed, and will be clear of such track or guide-rail when the door is at rest, substantially as and for the purposes specified. 5th. In a car-door hanger, a sliding plate *a*, carrying a roller or wheel *b*, and a stop or rest *n*, connected with the roller-support and co-acting with a lever *g* pivotally attached to the door at its centre, and a connecting arm or link *e* for vepressing the plate and bringing the roller or wheel into contact with the track or guide-rail, substantially as specified. 6th. In a car-door hanger, a roller or wheel, operated through connecting devices by the act of opening and closing the door, in combination with a bevelled stop or rest connected with the r ller support, and co-acting with the roller, for opening and closing the door readily and holding it stationary while at rest, substantially as described. 7th. In a car-door hanger, a roller or wheel operated through connecting devices by the act of opening and closing the door, in combination with a stop or rest connected with door and a guide rail or track, connected with car and arranged to support the said stop or rest, a bearing surface between the said rail and said stop or rest being bevelled, substantially as and for the purposes specified.

No. 21,355. Spool Holder. (*Porte-Bobinè.*)

Edward New, Hamilton, Ont., 1st April, 1885; 5 years.

Claim.—1st. In a spool holder *a*, cylinder B formed with rows of circular horizontal recesses *d*, the same being slightly inclined downwards to the rear to prevent the spools from falling out when the cylinder is revolved, substantially as specified. 2nd. In a spool holder, the combination of the recessed cylinder B, bottom plate C and top plate D, substantially as specified. 3rd. In combination with the recessed cylinder B, bottom plate C and top plate D, of the half circular shaped doors E, F, the same being made to slide in grooves *d*1, *e*, *r*, *s* of said plates, substantially as specified. 4th. In combination, with the cylinder B, bottom plate C and top plate D, of the series of bands *f*, secured together with strips *g* and cords *it*, eyes *j*, *k*, *l*, and made to operate for a covering of the cylinder, substantially as specified.

No. 21,356. Operating Elevator Doors.

(Manœuvre des Portes d'Ascenseurs.)

Cyrus W. Baldwin, Yonkers, N.Y., U.S., 2nd April, 1885; 5 years.

Claim.—1st. A stop device for elevators, consisting of a clamp arranged upon the cage in proximity to the hand rope, and appliances constructed and arranged to automatically operate said device and clutch the rope whenever the cage approaches an open door, as set forth. 2nd. The combination, in an elevator, of a clamp upon the cage, and devices connected to be operated by the door, and arranged within the well to strike the clamping device and insure the clutching of the rope when a door opposite the cage is opened, as specified. 3rd. The combination, with the cage and its rope, of a case having inclined faces *y*, *y*1, a wheel or roller arranged between the rope and said faces, and appliances whereby to throw the roller to or from the rope, according to the position of the door opposite which the cage is travelling, substantially as set forth. 4th. The combination, with the case F and its opening *x* and inclined faces *y*, *y*1 jointed loosely together, the pulley *b* carried by the rod *d* and springs *e*, *e*1, proportioned as set forth. 5th. The combination, with the cage and its clamp and with the doors of the well, of movable plates G arranged adjacent to the doors in the well, and devices whereby a plate is brought into position to be struck by the arm of the clamp when a door is open, substantially as set forth. 6th. The combination, with the doors leading to the well, and arranged to be opened only from within the cage, of self-latching catches within the well, and a rib upon the cage arranged to unlatch each catch as the cage is brought opposite the door, substantially as specified. 7th. The combination, with the cage, of a supplemental valve operating cable and ropes L, L1, or their equivalents, leading therefrom in different directions and extending to the landings, substantially as described. 8th. The combination, with the ropes L, L1, of weights formed with pulls, as specified. 9th. The combination, with the pull weights M, of elastic rings encircling the bodies, as specified.

No 21,357. Hay Carrier and Fork.

(Fourche et Monte-Foin.)

Gelon H. Palmer, Anoaster, Ont., 2nd April, 1885; 5 years.

Claim.—1st. In a hay carrier and fork, a pivoted arm C constructed in the form shown, with projections *a*, *b*, recess *c*, catch *d* and link J, substantially as and for the purposes specified. 2nd. In combination, with the arm C and frame A, of the lock button G and lug *i*, substantially as and for the purpose shown. 3rd. In combination, with the frame A, arm C and lock button G, of the stop block E on the rod F, and provided with a projecting flange *g* to operate the lock button and arm C, substantially as specified. 4th. The combination, with the carrier A, of the guide-blocks H, I, and swell I of the carrier frame, to form a bell mouth to receive the cylindrical-shaped head of the fork pulley-block L, substantially as specified. 5th. In combination, with the fork M of the connecting link trip *t*, the lower end secured to the inner tines *u*, and the upper part passing through the lever *v* and terminating in an eye for securing a trip rope *r* thereto, substantially as specified. 6th. The combination, with the pulley-block L and pivoted lock arm C, of the cylindrical shaped head *p* and eye *r*, substantially as and for the purpose specified. 7th. In combination, with the fork M, and link *t*, of the lever *v* and its adjusting set screw *x*, substantially as and for the purpose specified. 8th. The combination of the solid head *s* of the fork M and jaws *o*, of the fork pulley-block L, the head being bolted to the jaws, to prevent the fork from falling or becoming detached from the fork pulley-block, substantially as specified.

No 21,358. Car-Coupling. (*Accouplage de Chars.*)

David L. Richards, St. John, N.B., 2nd April, 1885; 5 years.

Claim.—1st. The draw-bar, notched or recessed in the abutment of its mouth, and connected to the coupling link by a chain attached thereto, and to one side of the draw-bar, the notch or recess in the abutment of the mouth of the draw-bar being for the chain to pass through, and to prevent such chain from being jammed when the draw-bar may abut against another draw-bar in the process of shackling together their cars, all being substantially as explained. 2nd. The draw-bar, notched or recessed in each of the opposite upright parts of the abutment of its mouth, and connected to the coupling link by a chain attached thereto and to one side of the draw-bar, such draw-bar also having at its opposite side an eye for connecting the chain thereto when desirable.

No 21,359. Electric Lamp Holder.

(Monture-Support de Lampe Electrique.)

Alfred Haid, Rahway, N. J., U. S., 2nd April, 1885; 5 years.

Claim.—1st. A tubular holder for an incandescent lamp, formed in sections, adapted to be united in the manner described, in combination with fixed terminals in one section and movable terminals in the other, connected with the battery wires, and arranged to be joined with the fixed terminals and held in contact therewith by uniting the two sections together, substantially as set forth. 2nd. A tubular holder for an incandescent lamp, formed in two sections, adapted to be united, in the manner described, in combination with metal strips D, F, secured in one section, and springs P, P, secured to an insulating plug and connected with the battery wires and fitting loosely within the other section, these parts being so constructed that the springs P, P, when joined to the strips D, F, are held in contact therewith by uniting the two sections of the holder, as and for the purpose set forth. 3rd. The combination, with the tubular lamp holder, having a slot, as K, of a lamp and base adapted to be inserted in said holder, metal strips for making contact with the lamp terminals and connected with the wires from a battery, as set forth. 4th. The combination, with a tubular lamp holder, of the insulating strip C, the metal strips D, E, F, secured to opposite sides of the same and spread to form terminals in the portion of the holder formed as a socket, and the push button G in the side of the holder for forcing the normally separated ends of strips E, F, into contact, as and for the purpose set forth.

No. 21,360. Creamer. (*Garde-Lait.*)

George W. Millner, Charlottetown, P. E. I., 2nd April, 1885; 5 years.

Claim.—The combination, with the can A, provided with a packing box D and packing C, of a tube B passing through the box and packing, whereby the tube may be depressed in the can and be removable therefrom, as and for the purposes set forth.

No. 21,361. Load Lifter. (*Monte Charge.*)

William Lucas, Markdale, Ont., 2nd April, 1885; 5 years.

Claim—1st. A shaft A, carried in suitable bearings at an elevated point in a barn or other building, and having attached to it the ropes B and D, the sheave-pulleys E and bar or scantling F, in combination with the grooved pulley G, having wound upon it the rope H, which is carried round the grooved rollers J, and K, and the pivoted block L contained within the box I, the whole being arranged and operating substantially as and for the purpose specified. 2nd. As an improved clutch, the rollers, J and K, having ratchet teeth *m*, in combination with the pivoted block L, carried on the pawls M, the whole being arranged and operating substantially as and for the purpose specified. 3rd. The ropes B wound round sheaves on the shaft A, and arranged to be connected at their ends to the body C and the ropes D, also wound round sheaves on the shaft A1, and connected to the scantling F, which is longer than the width of the body C, in combination with the rope H wound round the pulley G, and controlled by a frictional device, substantially as and for the purposes described.