

No. 16,064. Car-Coupling.*(Accouplage de Wagons.)*

John D. Kiely, Toronto, Ont., 5th April, 1884; 5 years.

Claim.—1st. In combination with a draw-head, a counterbalanced coupling device provided with a removable coupling arm, substantially as and for the purposes described. 2nd. In combination with a draw-head, a counterbalanced coupling device hung upon a transverse rock shaft, and provided with a jointed coupling arm *l*, substantially as and for the purposes specified.

No. 19,065. Scarfed Joint for Timber Beams. *(Joint à Mi-bois pour Poutres.)*

Jean B. Bélanger, St. Charles of Caplan, Que., 5th April, 1884; 5 years.

Claim.—1st. A joint for connecting end to end timber beams which are intended to resist a transverse strain, consisting of a wedged interlocking scarf having bevelled ends fitting into undercut shoulders such scarf enforced by a fish-plate or bolster locked to the scarfed beam by a pair of valved double dovetail keys fitted into corresponding mortises in beam and fish-plate, and securely wedged and locked therein, substantially as described, and for the purposes set forth. 2nd. In combination with a scarfed joint for wooden beams, a fish-plate or bolster extending beyond the scarfing and locked thereto by keys and wedges, substantially as described, and for the purposes set forth. 3rd. In combination with a wooden fish-plate *C*, the keys *D*, *D*, fitting into corresponding mortises and locked therein by a wedge *E*, substantially as described, and for the purposes set forth. 4th. In a jointed timber beam *A*, the scarfing having interlocking jaws *a*, *a*, and bevelled joints fitting into undercut shoulders locked by a wedge *B*, in combination with the fish-plate *C* locked to each end of the beam by halved double dovetail keys *D*, *D* and wedge *E*, all substantially as described, and for the purposes set forth.

No. 19,066. Leggin. *(Grande Guêtre.)*

Julian A. King, Chicago, Ill., U.S., 5th April, 1884; 5 years.

Claim.—1st. As an improved article of manufacture, an elastic leggin extended to cover the upper surface of the foot, and provided with a partial sole *B*, and heel-opening at *B*, substantially as described. 2nd. The combination, with the elastic leggin extended to cover the upper surface of the foot, of a partial sole *B*, and a facing or binding *a* about the heel-opening *B*, substantially as and for the purposes set forth. 3rd. The combination, with the elastic leggin extended to cover the upper surface of the foot, of a partial sole *B* affording a heel-opening, a facing *a* about the heel-opening and a facing continuous with the facing *a*, substantially as and for the purposes set forth.

No. 19,067. Mechanical Movement.*(Mouvement Mécanique.)*

William R. Park, Taunton, Mass., U.S., 5th April, 1884; 5 years.

Claim.—1st. The combination of the rotary disc provided with a series of pins projecting from its face, a reciprocating tappet having both ends cut in an incline to the line of its reciprocation, and adapted to engage with the pins and impart rotary motion to the disc in its reciprocation, and means for reciprocating the tappet, substantially as having a series of pins equidistant from each other, arranged concentric with the axis of rotation of the disc, with the reciprocating tappet having its ends cut on an incline to the line of its reciprocation and parallel to each other, all so arranged that the tappet will turn the disc an equal distance in the same direction at each reciprocation. 3rd. The combination of the rotary disc, the series of pins the tappet and parallel inclined ends, and the reciprocating bar, substantially as *B*, and for the purpose set forth. 4th. The combination of the shaft *F*, pins *G*, and bridge *E* with its supports *H*, *H*, formed with bearings for bar *F*, substantially as and for the purpose described. 5th. The combination of the reciprocating bar provided with stop-pins to limit its motion in either direction, bearings for the bar tappet, with ends formed at an inclination to the line of its movement but parallel to each other, and the rotary disc provided with the circular series of pins, substantially as and for the purpose set forth. 6th. The combination of the rotary disc provided with a concentric series of equidistant pins uneven in number projecting from its face, and the double-acting reciprocating tappet engaging said pins and having a width nearly equal to the distance between two adjacent pins, and a length such that one end does not pass out of engagement with one pin until the opposite end goes into engagement with another, all so arranged that the tappet not only serves to turn the disc, but locks the same against independent movement.

No. 19,068. Machine for Forming Tenons on Spokes and Boring and Drilling. *(Machine pour Tailler les Tenons des Rais de Roues et pour Percer et Forer.)*

William H. Hosler, Petoskey, Mich., U.S., 5th April, 1884; 5 years.

Claim.—1st. In a machine for forming tenons on spokes, the combination of the stock *A*, having one end curved downwardly, to which holder *c* in connection with spindle *B*, having handle *B*, bar *O* projecting through slot *d* of stock *A*, and having rest *C*, lever *D* for supporting stock *A*, and strap *E* for holding the parts *E* to the wheel-hub, substantially as shown and for the purpose described. 2nd. The combination of stock *A*, having tool or chuck holder *B*, lever *D* with handle *B*, and holder *c* secured to spindle *B* by plate *b*, lever *D* pivoted to stock *A*, bar *C* for supporting stock *A*, and strap *E* for securing the parts to the wheel-hub, substantially as shown and described. 3rd. A tenon-boring machine consisting of a stock or brace,

a chuck-holder comprising, a spindle operated by a crank and secured to the stock by plate *b*, bar *C* having foot *C*, lever *D* and strap *E*, substantially as shown and for the purpose described.

19,069. Car-Coupler. *(Accouplage de Wagons.)*

Charles E. Mark, Flint, Mich., U.S., 15th April, 1884; 5 years.

Claim.—1st. In a car-coupling and in combination with a draw-bar and buffer, a swinging bale or gate pivotally pendant from the end of the car and pivotally connected to said draw-bar or buffer, whereby a swinging support for said draw-bar and buffer is provided, whereby will not interfere with their reciprocating movement, substantially as specified. 2nd. In a car-coupling, a swinging bale or gate pendant from the front end of the car, and supporting the projecting end of a metallic box, which encloses the hooked end of the draw-bar and allows such box to have a slight vertically radial movement, and a horizontal reciprocating movement to the limit of the compression or extension of the buffer spring, substantially as described. 3rd. The combination with the hooked end of the draw-bar and with an enclosing metallic case, a cam eccentrically secured to a shaft which is pivotally secured to the lower side of said case and working in a slot therein, said cam being operated from either side of the car by means of crank arms secured in suitable boxes to the bottom of the car, the inner ends of said crank arms connecting with the cam shaft by means of diagonally located connecting-rods and universal joints, substantially as and for the purposes specified. 4th. In combination with the hooked end of the draw-bar and with an enclosing metallic case, a cam, the periphery of which is flattened opposite to or at the point farthest from the shaft to which said cam is eccentrically secured, said shaft being pivotally secured to the lower side of said case with the cam working in a slot therein, and operated from either side of the car by means of crank-arms secured in suitable boxes to the bottom of the car, the inner ends of said crank-arms connecting with the cam-shaft by means of diagonally located connecting-rods and universal joints, substantially as and for the purposes set forth.

No. 19,070. Fire-Escape and Fire-Escape Support. *(Sauveteur d'Incendie et Support de Sauveteur d'Incendie.)*

The New England Fire-Escape Company, (Assignees of Harlem Fairbanks,) Boston, Mass., U.S., 5th April, 1883; 5 years.

Claim.—1st. In a fire-escape, the combination, with a canvas chute *A*, of a curved stay piece *D*, substantially as and for the purposes hereinbefore set forth. 2nd. In a fire-escape, the combination of a chute *A*, curved piece *D* and rounds *B*, *B*, substantially as and for the purposes hereinbefore set forth. 3rd. In a fire-escape, the combination, with the chute *A*, of the curved piece *D* and the supporting ropes *E*, *E*, *G*, *G*, substantially as and for the purposes hereinbefore set forth. 4th. A fire-escape protector and supporter of the character described, provided with an automatic kneed-down part *I* and a removable cover *J*, and suitable means for securing the supporting ropes of the escape, all substantially as and for the purposes hereinbefore set forth. 5th. The combination, with a fire-escape protector and supporter of the character described, of suitable brackets or braces, whereby it is attached to and supported upon the outside of a building, all substantially as and for the purposes hereinbefore set forth.

No. 19,071. Pulley. *(Poulie.)*

Frank C. Caldwell, Chicago, Ill., U.S., 5th April, 1884; 5 years.

Claim.—1st. As a new article of manufacture, a pulley, the rim and disk or body of which consists of a plurality of veneers, substantially as set forth. 2nd. A pulley, the rim and disk of which consists of a plurality of veneers, the periphery of the disk being turned outward forming a flange to which the rim is secured, substantially as set forth. 3rd. In a pulley, the combination of rim *A* made of a plurality of veneers, disk or body *B* made of a plurality of veneers, hub *C* and plate *D*, all made, constructed and arranged substantially as specified.

No. 19,072. Creamer. *(Boîte à Lait.)*

George F. Simonson, St. John, (Assignee of Stephen F. Kierstead, Gagetown,) N.B., 5th April, 1884; 5 years.

Claim.—1st. In a creamer, the cover *H* provided with the strainer *I*, tube *A* with screw-thread formed the cap *i*, and the roll *J*, substantially as described. 2nd. A revolving faucet having the main plate *A*, projecting rim *3*, revolving plate *c* turning on the stud *d*, washer *C*, screw *f*, packing *D*, outlet pipe *E* and aperture *g*, substantially as described. 3rd. In a creamer, or milk can, the combination of a faucet arranged to be turned within the area of the can when not in use, with a mica indicator *G* soldered to the wall of the can and the cover *H* provided with the strainer *I*, tub *h*, cap *i*, and rolls *j*, substantially as shown and described and for the purpose set forth.

No. 19,073. Fire-Escape and Life-Preserver. *(Sauveteur d'Incendie et Appareil de Sauvete.)*

Marshall B. Ingersoll, Regina, Ass'ne., 7th April, 1884; 5 years.

Claim.—In a fire-escape, or life-preserver, the shaft *D* provided with the hand wheel *F*, and having a ladder *G* provided with guys *H* attached thereto, standards *E*, with steadying blocks *E* pivoted in sockets *C*, as shown and described, substantially as and for the purpose hereinbefore set forth.

No. 19,074. Inking Pad. *(Balle d'Imprimerie.)*

Charles W. Crutsinger, St. Louis, Mo., U.S., 7th April, 1884; 5 years.

Claim.—1st. In a pad, the combination of a body having a base and elastic walls forming recesses, and a porous cover to rest on the body and tops of the walls, the walls forming a firm support, as set forth. 2nd. A pad cast of elastic material, the said material forming an