

a set of rollers at each end, parallel with the press boxes, and a set of rollers in the centre at right angles to the end rollers, in combination with the mould driver *u*, crank-arm *w*, shaft *W*, lever *Li* and lever *L*, substantially as described, whereby empty moulds are supplied alternately by the one mould-driver to the opposite presses, and the full moulds are delivered alternately from the opposite ends of the mould frame. 9th. In combination for making common brick, a double set of presses, a rocking tempering rack and forced feed within said receptacle, and means for operating the same, substantially as described for the purposes set forth. 10th. In a brick machine, the combination of two sets of presses, a clay receptacle between the presses, a rocking tempering rack and forced feed within said receptacle, and a set of toggle levers connected at their point of union to the tempering rack, and at their opposite ends rigidly attached to plunger-operating shafts, substantially as described. 11th. In a brick machine, in combination, presses *T*, *T*, clay receptacles *D* between the presses, rocking tempering rack and forced feed *E*, *e*, *et*, *F*, the toggle levers *I*, *i*, *ii*, shafts *J*, *J*, cranks *K*, *K*, and plunger rods *R*, *r*, and *R*, *r*, substantially as described. 12th. In a brick machine, in combination, presses *T*, *T*, press boxes *V*, *V*, dies *v*, *v*, clay receptacle *D* between the presses, rocking tempering rack and forced feed *E*, *e*, *et*, *F*, toggle levers *I*, *i*, *ii*, shafts *J*, *J*, cranks *K*, *K*, and plunger rods *R*, *r*, *R*, *r*, substantially as described. 13th. In a brick machine, in combination, a double set of presses, a clay receptacle between the two sets of presses, a rocking tempering rack and forced feed within said clay receptacle, means for supplying empty moulds and removing the full moulds to and from the presses, and means for operating the same, substantially as described for the purpose set forth. 14th. In a brick machine, in combination, the presses *T*, *T*, frame *B*, provided with rollers *b* and *bi*, mould driving roller *u*, crank-arm *w*, rock-shaft *W*, lever bar *Li*, provided with pin *l*, lever bar *L* provided with slot in lower extremity and rocking rack *R*, substantially as described. 15th. In combination, the following elements constituting the operative brick machine described, viz: the frame *A*, crank *li*, connecting rod *l*, tempering rack and forced feed *E*, *e*, *et*, toggle levers *I*, *i*, *ii*, shafts *J*, *J*, cranks *K*, *K*, plunger rods *R*, *r*, *R*, *r*, presses *T*, *T*, provided with air valves *v*, *v*, press boxes *V*, *V*, dies *v*, *v*, *et*, striker wire *V*, lever *L*, with slot lever *Li*, with pin *l*, shaft *W*, crank-arm *w*, roller *u*, adjustable frame *B* provided with rollers *b* and *bi* and moulds *C*, substantially as described for the purpose set forth.

No. 29,979. Peat Fuel. (*Tourbe combustible*)

David Aikman, Montreal, Que., 12th October, 1888; 5 years.

Claim.—As a new article of manufacture, a pressed fuel block composed of peat carbonized by heat, and condensed by pressure to such an extent that the constituent tarry matter is thoroughly intermixed with the carbonized matter, and a black external tarry glaze is formed on the surface of the block, substantially as and for the purpose described.

No. 29,980. Sleigh Runner Attachment for Wheeled Vehicles. (*Appareil de patin de traîneau pour voitures à roues.*)

David G. Wyeth, Newark, Ohio, U.S., 12th October, 1888; 5 years.

Claim.—1st. The combination in a sleigh runner attachment for wheeled vehicles, of the thimble *a*, having the wings *w*, *w*, and the lugs *l* integral therewith, and having the grooves *g*, *g*, the packing *n*, *n*, the two side plates *p*, *p*, one on either side of the sleigh runner, with flanges *f*, *f*, *f*, and the braces *b*, all substantially as set forth. 2nd. The combination in a sleigh runner attachment for wheeled vehicles, of the thimble *a*, having the wings *w*, *w*, and lugs *l* integral therewith, the braces *b*, the two side plates *p*, *p*, having each flanges *f*, *f*, *f*, and the raves *r* and knees *k*, *k*, all substantially as set forth. 3rd. The thimble *a*, having wings *w*, *w*, and lugs *l* integral therewith, and having the grooves *g*, *g*, to receive a packing, substantially as set forth for the purpose specified. 4th. The thimble *a*, having wings *w*, *w*, and lugs *l* integral therewith, substantially as set forth, for the purpose specified. 5th. The side-plate *p*, having flanges *f*, *f*, *f*, substantially as shown for the purpose specified. 6th. The combination in a sleigh runner attachment for wheeled vehicles, of two side plates *p*, *p*, each having four flanges *f*, *f*, *f*, *f*, with unmortised and untempered knees and raves *k*, *k* and *r*, substantially as set forth. 7th. The combination in a sleigh-runner attachment for wheeled vehicles, of the thimble *a*, having wings *w*, *w*, and lugs *l* integral therewith and the braces *b*, substantially as set forth. 8th. The combination in a sleigh runner attachment for wheeled vehicles, of the thimble *a*, having wings *w*, *w*, and lugs *l* integral therewith, the braces *b* and a side plate *p*, all substantially as set forth.

No. 29,981. Horse-Shoe. (*Fer à cheval.*)

Jacob Russell, Brooklyn, N.Y., U.S., 12th October, 1888; 5 years.

Claim.—1st. A horse-shoe, having five or more calks, some of which are intermediate between the toe and heel calks, and having the normal fullering, that is to say, having the nail-creases and nail-holes, arranged in the normal and approved manner, as set forth. 2nd. A horse-shoe, having frog supports formed by extending the web of the shoe at each side back beyond the heel-calks, and bending down these extensions, substantially as herein set forth.

No. 29,982. Bridle Bit. (*Mors de bride.*)

Hardy W. Campbell, Columbia, Dakota, U. S., 12th October, 1888; 5 years.

Claim.—1st. In a bridle bit, the combination of the curved bars *A* and *A*, the bar *A* having the rings *B* and *C*, and the bar *A* having the rings *B* and *C*, the rings *B* and *C* being formed with the cross-bars *b* and *bi*, and the loop-bolts *b2*, *b3*, *b4*, *b5*, and the guards or projections *bs*, the bars *A* and *A* having their alternate ends protruding through the rings *B* and *C*, and the rings *B*, *B* and *C* pivoted to the ends of said bars, all substantially as described and set forth. 2nd. In a bridle bit, the combination of the curved bars *A* and *A*, the bar *A* having the rings *B* and *C*, and the bars *A* having the rings

B and *C*, the rings *B* and *C*, having the cross-bars *b* and *bi*, and the guard or projection *bs*, the bars *A* and *A* having their alternate ends protruding through the rings *B* and *C*, and the rings *B*, *B* and *C* pivoted to the ends of said bars, substantially as described and set forth. 3rd. The combination of the curved bars *A* and *A*, the bar *A* having the rings *B*, *C*, and the bar *A* having the rings *B*, *C*, the bars *A*, *A*, having their alternate ends protruding through the rings *B* and *C*, the rings *B*, *B* and *C* pivoted to the ends of curved bars, substantially as described and for the purpose set forth.

No. 29,983. Machine for Soldering Caps on Fruit. (*Machine à souder les coverts des p^{er}es à fruit.*)

Egerton DeCaw and Albert E. Carpenter, Hamilton, Ont., 12th October, 1888; 5 years.

Claim.—1st. A row of revolving soldering irons, operating in a frame, and having attached hollow spindles, each spindle containing a movable rod (operated by mechanism) for holding the caps while the revolving irons are soldering the caps, substantially as and for the purpose specified. 2nd. A series of weighted levers pivoted to a frame, and having the spindles of the soldering irons passing through them, and a series of lifting arms operating under the levers, substantially as and for the purpose specified. 3rd. The combination of the fire-box *B*, soldering irons *C*, spindles *D*, rods *E*, with levers for operating them, substantially as and for the purposes specified. 4th. In combination with the soldering irons *C* and their spindles *D*, of a series of weighted levers *F*, and a series of lifting arms *G* on the shaft *J*, and collars *F* on the spindles *D*, substantially as and for the purpose specified. 5th. In combination with the spindles *D*, soldering irons *C* and rods *E*, the slightly movable frame *F*, spindles *F*, and collars *b*, substantially as and for the purpose specified. 6th. In combination with the soldering irons *C* and spindles *D*, of the frame *F*, with collars *b*, combining intermediate pinions and bevel gears *k*, *k* and bevel gears *h*, *h* on the shaft *N*, substantially as and for the purpose specified. 7th. The combination of the slotted arms *R*, frame *F*, rods *E*, connecting rod *S* and lever *T*, substantially as and for the purpose specified. 8th. The combination of the shaft *J*, arm *M*, connecting lever *L* and foot lever *K*, arms *I* and shaft *J*, substantially as and for the purpose specified. 9th. The combination, with a series of revolving soldering irons, of the spindles *D*, frame *F*, arms *R*, connecting rod *S* and lever *T*, substantially as and for the purpose specified. 10th. The spindles *D*, having leathers *o*, in combination with the slotted pinions *I*, substantially as and for the purpose specified.

No. 29,984. Automatic Waggon Brake.

(*Frein automatique pour wagon.*)

John Fraser, Woodhouse, and G. A. Upper, Simcoe, Ont., 13th October, 1888; 5 years.

Claim. The combination of tongue yoke *A* and holder *B*, rods *E* and *F*, levers *F* and *H*, shaft *I*, and brake *J*, doubletree *K* and chain *L*, with the bars *M* and *N*, substantially as and for the purpose hereinbefore set forth.

No. 29,985. Bob Sleigh. (*Traineau-Jumeau.*)

Ezra H. Stafford (assignee) John Mack, Grand Rapids, Mich., U. S., 13th October, 1888; 5 years.

Claim.—In combination with the runners, a pair of knees bent to form crowns, a bench support and a bench having a groove or grooves in which the crowns are fitted, said knees being set in an inclined position and fixed in the grooves, all substantially as described.

No. 29,986 Sheet Metal Hinge.

(*Penture de métal en feuille.*)

The Stanley Works (assignee) of William H. Hart and Thomas Corcoran, New Britain, Conn., U. S., 13th October, 1888; 5 years.

Claim.—1st. In a hinge, the sheet metal leaf or leaves having a swaged or struck-up strengthening bead at the joint end, said bead extending transversely to the axis of the pintle, substantially as described and for the purpose specified. 2nd. In a sheet metal hinge, the leaf or leaves having a bead extending around the pintle-sleeve and over a portion of the leaf, and another bead on the body of the leaf extending toward the pintle sleeve to a point where a transverse section through the leaf will extend through both beads, substantially as described and for the purpose specified. 3rd. In a sheet metal hinge, the angular leaf having strengthening beads at the joint end, and a bead extending from said end around the first angle of the leaf, substantially as described and for the purpose specified.

No. 29,987. Dumping Cart or Waggon.

(*Tombereau.*)

Caleb H. Coggeshall, Brooklyn, N.Y. (assignee of Thomas Hill, Jersey City, N.J.), U.S., 12th October, 1888; 5 years.

Claim.—1st. The combination, with the axle, of the vehicle and its side uprights forming bearings for the body of the vehicle, of the shafts *H*, *H* constructed at the rear ends to butt or bear against said uprights, and the scrap screw-bolts *I*, *I* secured on and along the shafts *H*, *H* arranged to pass through apertures in the axle uprights, and further secured to said uprights in their rear, essentially as shown and described. 2nd. In a dumping cart or vehicle, the combination, with the tilting body, its frame or support and handle at one end, of the pulley *bi* and the chain *ca* adapted to control the manipulation of the body, substantially as specified. 3rd. In a holding down fastener for the tilting body of dumping carts or vehicles, the fixed plate *L* having overturned ends *li*, *li*, in combination with the lever *K* carried by said plate, substantially as shown and described. 4th. In a dumping cart or vehicle, having side pivots on its body to provide for the tilting of the latter, an elastic rubber pedestal for said pivots, composed of an upright body part