

No. 7957. Improvements in Farm Gates.*(Perfectionnements dans les barrières de fermes.)*

Joseph E. Stong, Newtonbrook, Ont., 5th October, 1877, for 5 years.

Claim.—1st. The levers H H, provided with handles R R and pivoted within notches cut into the ends of the posts F F, in such a manner that the short ends of the said levers H H overlap each other between the posts F F, in combination with the rods J J, lifting bars I, and gate D; 2nd. The base board A provided with cross-ties B B and post C, secured by the wedge E, in combination with the lever posts F F, post P, the bars N and I, forming as combined a frame for holding the gate D; 3rd. The top rail M provided with spring guards S S, in combination with the posts F F; 4th. The recessed post U to receive the stile T, and provided with a pierced sheet metal guard G, in combination with the pin e secured to stile T.

No. 7958. Combined Divider and Siding Hook.*(Compass-trussequin.)*

Homer Sherman, Flushing, Mich., U. S., 5th October, 1877, for 5 years.

Claim.—The combination of the siding hook A having a straight back a fixed point B at one end, and a half-knuckle joint at the other end, with the pivoted divider-leg B₁ provided with a half-knuckle joint.

No. 7959. Improvement on Reclining Chairs.*(Perfectionnement des pliants.)*

Numon N. Horton, Kansas, Miss., U. S., 5th October, 1877, for 5 years.

Claim.—1st. The angular arms H and head rest I rigidly connected together and hinged to the back E; 2nd. The bow-shaped crank lever F, in combination with the uprights G, back E, arms H, supporting pawl J, and rack K; 3rd. The combination of the uprights G, constructed with knuckle-joints and the hinged back E, and arms H, to provide for setting the back forward; 4th. The combination of the back E, arms H, and jointed uprights G, and a suitable supporting-frame with the stop Q, so that said stop will be retracted by the tipping forward of said back; 5th. The combination of the hinged back E, arms H, uprights G, crank lever F, supporting pawl J, and lever M for retracting said pawl; 6th. The spider having arms for attachment to the seat frame D and bearings for the shafts which form the pivot of the uprights G; 7th. The leg-rest N, in combination with the hinged supporting arm O, working in a slot in the stem of the spider C, and with the lever P for elevating said supporting arm when the leg-rest is to be lowered.

No. 7960. Improvements in Iron Fences.*(Perfectionnements dans les clôtures en fer.)*

Hiram Jones, St. Thomas, Ont., 5th October, 1877, for 5 years.

Claim.—1st. The iron post A with the flange B for driving and stiffening the same; 2nd. The block or wedge D; 3rd. The perforated strip C.

No. 7961. Improvements on Temporary Binders.*(Perfectionnements aux serre-papier.)*

George W. Emerson, Kenton, Ohio., U. S., 5th October, 1887, for 5 years.

Claim.—1st. The combination with the covers A, of the binding wires b having projecting loops m and rivetted on each side to the covers, and forming fastenings from which the binding strands cannot slip on said wires; 2nd. The combination with the cover A, of the binding wire b spaced from and running parallel to the edge of said cover, secured by the re-entering loops d to said cover, and having the fastening loops m; 3rd. The combination with the covers A and binding wires b, having protecting loops m and rivetted to their contiguous inner margins, of the spaced cleats H secured to one of the covers in line with the loops m aforesaid, and a filing thread secured at one end to said loops and being passed through the sheets and loop coiled around the said cleats.

No. 7962. Improvements on Thill Couplings.*(Perfectionnements aux ajustages de limonnières.)*

Luther C. Spencer and Philander Barrett, Rochester, N.Y., U. S., 5th October, 1877, for 5 years.

Claim.—1st. The draw-irons of vehicle thills or poles, provided with a detachable joint, separate and independent of the ordinary coupling joint; 2nd. In combination with the thill stock A and hinged shank B, the sliding annulus or clamp C; 3rd. In combination with the stock A, shank B and clamp C, the locking clutch b; 4th. In combination with the clamp C, stock A and shank B, the dowel e and its corresponding recess, either with or without the enlargement or shoulders a on the head a.

No. 7963. Improvements on Electric Lamps.*(Perfectionnements aux lampes électriques.)*

Paul Jablochhoff, Paris, France, 5th October, 1877, for 5 years.

Claim.—1st. An electric candle consisting of two parallel conducting rods of carbon or metal a, separated from each other by an insulating substance which is consumed along with them; 2nd. The use for separating the parallel rods above referred to, of compact substances difficult of fusion, such as kaolin, ingredients of glass or porcelain, powdered mixtures of earthy or siliceous substances; 3rd. An electric candlestick having two insulated wire jaws A, arranged to hold and establish electric communication with the electric candle referred to in the preceding claims; 4th. The method of subdividing electric light by arranging several electric candles in one circuit, with or without the use of relays; 5th. The method of lighting an electric candle, or several such candles arranged in one electric circuit, by means of a pulverulent match; 6th. The method of varying the colour and lustre of the electric light, by introducing metallic and other powders in the insulating material.

No. 7964. Improvements on Shoe Sole Buffers.*(Perfectionnements aux usties de cordonnerie.)*

Josiah W. Rogers, Salem, Mass., U. S., 5th October, 1877, for 5 years.

Claim.—1st. An elastic abrasive circular pad, so extended in radial directions laterally from its holder as to be capable of being bent in the extension, upward, toward, or against the side of such holder; 2nd. The abra-

sive pad holder, consisting of two conic frusta A D, shank C, screw d and nut E thereto; 3rd. A circular layer a of abrasive material, and a pad covering b and a stuffing c, with the cones or frusta A D of the pad holder; 4th. A shoe sole buffer composed of a circular abrasive pad and a holder therefor.

No. 7965. Felt Hardening Machine.*(Machine à durcir le feutre.)*

John Keats, London, Eng., 5th October, 1877, for 15 years.

Claim.—1st. The combination of the lower platen B₁ and lever C, with the upper platen B connected to said lever by a pivot d, which provides for the rise and fall of the said platen B with a jaw-like action, and also provides for the vertical self-adjustment of the said platen to keep itself parallel with the lower platen B₁; 2nd. The combination of the two platens B B₁, the lever C, with which the said platens are respectively connected, and the eccentric F operating within the yoke, a fork of said lever; 3rd. The combination of the platens B B₁, lever C, eccentric F, shaft E and treadle G, connected with the upper platen in rear of the lever C.

No. 7966. Machine for Chamelling Shoe Soles.*(Machine à faire les gravures des semelles de chaussures.)*

John Keats, London, Eng., 5th October, 1877, for 15 years.

Claim.—1st. The combination with the rocking frame G, moving about an axis parallel with the axes of the feed wheels, of a cutter-carrying and guide bracket or piece S having bottom upward and downward, and a horizontal adjustment relatively to said rocking frame, and a knife having a horizontal adjustment, not only with reference to the said rocking frame, but also with reference to said bracket; 2nd. The combination with the rocking frame which carries the upper feed wheel, of a machine for chamelling or preparing the soles of boots and shoes, of the slide B, adjustable in said frame, the knife carrying and guiding bracket S, adjustable in said slide, the knife K, sliding freely through said bracket, and mechanism connected with said bracket, for varying the position of said knife relatively to the guiding face of said bracket; 3rd. The combination with the frame G, rocking on an axis parallel with the axes of the feed-wheels and the cutter carrying and guide bracket S attached to said frame G, of the knife K sliding through said bracket, the lever R attached to said bracket and connected with the said knife, and the slide T and pin k connected with said lever R.

No. 7967. Heel Plate for Boots and Shoes.*(Plaque pour les talons de chaussures.)*

Levi W. Buxton and John P. Greeley, Nashua, N. H., U. S., 5th October, 1877, for 5 years.

Claim.—1st. A heel plate for shoes and boots having the radial ribs b on its upper surface and the three equidistant holes g in the central space e; 2nd. The rubber cushion C for a heel plate, consisting of the flat sector-shaped body h and the downwardly projecting stud K; 3rd. The combination with the radially-ribbed heel plate A, of the sectional ring of cushions C having stud K projecting downward through an annular series of holes in said plate; 4th. A heel plate for shoes and boots having the radial ribs b on its upper surface, the cushions projecting through it, and the spurs z on its underside.

No. 7968. Improvements in Fences.*(Perfectionnements dans les clôtures.)*

John Vance, Forest, Ont., 5th October, 1877, for 5 years.

Claim.—1st. The post A connected by a skirting board B, in combination with the wires E knicked by the staples F; 2nd. The ditches C and bank D on each side, and in combination with a wood and wire fence; 3rd. The vertical wire H bound around the wires E, in combination with the pin I and small post J.

No. 7969. Improvements on Dumping Waggon.*(Perfectionnements aux wagons à bascule.)*

Henry Leggett, Renfrew, Ont., 5th October, 1877, for 5 years.

Claim.—The frame A constructed with tilting boxes or sections D supported pivotally on transverse rods E, bearing on the plates F and board E₁, the several sections arranged and operating as set forth.

No. 7970. Method of Preparing Hay.*(Mode de traitement du foin.)*

John B. Lafitte, New Orleans, La., U. S., 5th October, 1877, for 5 years.

Claim.—The hay which by compression has been reduced to solid food by the destruction of its air cells and its tubular structure.

No. 7971. Carriage Shaft and Pole Coupling.*(Ajustage des limonnières et des timons de voitures.)*

John E. Hadden, Picton, Ont., 5th October, 1877, for 5 years.

Claim.—1st. The combination of the solid cylindrical headed shaft iron I H with the coupling box; 2nd. The combination of the coupling box, having the lower part A, the flange D, the cap E and the oil cup G; 3rd. The combination of the flange D with the cap E.

No. 7972. Improvements in Lamps.*(Perfectionnements dans les lampes.)*

Edward M. Lowdon, New York, U. S., 5th October, 1877, for 5 years.

Claim.—1st. The combination of the reservoir A₁ having the vent-hole, the supply tube b₁, both as a syphon or otherwise, wick-tube C and vent-tube d; 2nd. The combination of the syphon supply-tube b₁, the wick-tube C and vent-tube d; passing through a cylinder or top, having or not having the vent hole in itself, or any attachment thereto, and by which cylinder or top the said combination can be used on a lamp fount.