

### No. 11,192. Improvements on Lock Nuts.

(*Perfectionnements aux arêtes noix.*)

Dewitt Halpin, Thornfield, Eng., 29th April, 1880; for 5 years.

*Claim.*—A threaded nut A, having a diminished bore at the outer end formed by cutting the face of the nut with diametrical slots a and compressing the divided portions b inwardly, whereby when the nut is placed on a bolt the divided portions will yield to admit the bolt and exert a gripping influence by spring pressure, to prevent the nut from making loose on the bolt.

### No. 11,193. Improvements in Explosive Compounds.

(*Perfectionnements aux composés explosibles.*)

John Pattison, Nevada, Cal., U. S., 29th April, 1880; for 5 years.

*Claim.*—The combination, with an explosive compound having for its base Chlorate of Potash, of an oleaginous flour or meal to prevent premature and spontaneous explosion.

### No. 11,194. Improvements on Glove Fasteners.

(*Perfectionnements aux agrafes des gants.*)

William H. Storey, Acton, Ont., 29th April, 1880; (re-issue of patent No. 9,779.)

*Claim.*—1st. A spring having two diverging legs and provided with a fastening for holding the legs together and finger lugs, to facilitate the closing and opening of the spring; 2nd. A spring glove fastener having diverging legs provided with a coupling device adapted to open the wrist slit of a glove, when the coupling is disengaged, and to draw the edges of the wrist slit together, when compressed and coupled; 3rd. The combination, with a glove or mit provided with wrist slit, of a spring fastening provided with diverging legs which are adapted to open the wrist slit when uncoupled, and to draw the edges of the slit together when closed; 4th. A spring having diverging legs with hook and eye fastening and finger lugs, all fashioned from a continuous piece of metal.

### No. 11,195. Improvements in Evaporators.

(*Perfectionnements aux appareils évaporatoires.*)

Edwin R. Whitney and Angus McKay, Montreal, Que., 29th April, 1880; for 5 years.

*Claim.*—The combination with an evaporating pan in which a winding channel is formed from the centre to the circumference, a vessel discharging into centre of said pan and having formed in it a pipe through which can be taken at will the products of combustion from the furnace.

### No. 11,196. Machine for Dressing Staves.

(*Machine à planer les douves.*)

Horace H. Miller, Lyndonville, Vt., U. S., 29th April 1880; for 5 years.

*Claim.*—1st. The track R, the plane C and the shaft D with the cam bearings at each end, also the dogs E E and the circular lever F, and the belt G with the opening H; 2nd. the dogs a a<sub>1</sub> with the claws b, the shaft f with bearings I I, also the short lever g, the lever e, the feed wheel d and spring h.

### No. 11,197. Improvements on Nut Locks.

(*Perfectionnements aux arête-noix.*)

John B. Robertson, Toronto, Ont., 29th April, 1880; for 5 years.

*Claim.*—A locking washer having holding projections d in its face and a tongue d, in combination with a grooved screw bolt A and nuts B C.

### No. 11,198. Improvements on Reaping Machines.

(*Perfectionnements aux moissonneuses.*)

John F. Mahon, London, Ont., 29th April, 1880; for 5 years.

*Claim.* 1st. The combination of the two wrought iron bars g g' with the and prices g' g''; 2nd. the combination of the gear bracket B B'; 3 d. The adjustable foot piece c with foot rest d; 4th. The adjustable foot c with seat for driver; 5th. The combination of the basket C with the ratchet wheel e, stop pawl h, lever k and lifting chain f, together with the coupling sliding post i and its connection with the table or platform D; 6th. The combination of the toothed sector e, lever and retaining plunger n, the rod m with its connection to the projector l on the table D, together with the oscillating connection of the table D to the coupling post i.

### No. 11,199. Improvements on Wind Mills.

(*Perfectionnement aux moulins à vent.*)

Thomas Dewees, San Antonio, Texas, U. S., 29th April, 1880; for 5 years.

*Claim.*—The combination of a tower having the loose shutters b in a vertical position, and a wheel B consisting of a shaft having radial arms and three intermediate paddles connected with each arm.

### No. 11,200. Improvements on Nut Locks.

(*Perfectionnements aux arête-noix.*)

George E. Facto and Hector Mc'rae, Ottawa, Ont., 29th April, 1880; for 5 years.

*Claim.*—1st. The combination of the rails A A, plates B B; having backs coinciding with the cavity of the rails, bolts C, having square heads sunk into plate B, plate E slotted to receive the nuts of bolts C and held by spikes or screws D passing through plate B into holes in plate E; 2nd. The spikes G or screws D, inserted from the back of plate B through nut plate E and bent over its outer face or screwed therein to retain the same.

### No. 11,201. Machine for Bevelling the Ends of Staves.

(*Mach ne à biseauter les bouts des douves*)

James Clancy, (Assignee of Crowell M. Clancy,) Wallaceburgh, Ont., 29th April 1880; for 5 years.

*Claim.*—The combination of the bevelling knife E as made, adjusted and fastened to a stove machine.

### No. 11,202. Improvements on Railway Sema-phores.

(*Perfectionnements aux sémaphores des chemins de fer.*)

Josiah Nesbitt, Toronto, Ont., 29th April, 1880; for 5 years.

*Claim.*—1st. The ratchet wheel I, geared with the wheel L to which the chain M supporting a weight is attached, in combination with the dog H and tumbling plate G supported by the lever E; 2nd. The tumbling plate G provided with a weight g and arm F resting upon the lever E, in combination with the electro magnet D; 3rd. The tumbling plate G provided with an arm h, in combination with the pins k in the ratchet wheel I; 4th. The pivoted forked lever Q fitting into the catch R on the door S, in combination with the pin I; 5th. The pins W, in combination with the spring V connecting with the wire U.

### No. 11,203. Improvements in Knitting Machines.

(*Perfectionnements aux machines à tricoter.*)

William H. Abel, Bridgewater, N. H., and Henry W. Boardman, Lovell, Mass., U. S., 29th April 1880; for 5 years.

*Claim.*—The needle bar having independently constructed fillets attached thereto. The needle bar having flat or horizontal surfaces for the regular knitting needles and inclined or depressed surfaces for the narrowing needles to drop into. The needle cam bar having movable cams. The clutch closer. The latch needle having the flaring slot between the hook and latch pivot. The latch needle having the flaring slot and regulating bar. The transferring point slotted as shown, in combination with the latch needle having the flaring slot in the front comb or push bar. The back comb or push bar having the movements. The front push bar, in combination with the back presser bar. The pitman arm and its elongated rack. The pitman arm with its elongated rack, in combination with the pinion it operates. The transferring points, bar with its frame and actuating cam for moving it forward and backward. The transferring points, bar with its frame and actuating cam for depressing it on to the needles. The transferring points, their bar and frame, in combination with their lock, arm and cam. The transferring points, bar and frame with its locking devices. The transferring points, frame in combination with its pattern mechanism for stopping the same. The pattern mechanism for stopping the knitting and narrowing mechanism, or both. The lever and latch for regulating the slack course. The vibrating cam shaft, in combination with its cam and the needles and transferring points. The vibrating or reciprocating cam shaft with the presser or comb bar and their respective cams. The jointed pawls, in combination with the slides. The jointed pawls, in combination with the transferring points. The needles in combination with the needle bar. The needles, in combination with the movable cams. The needles, in combination with latch closer. The tension drum, in combination with its adjustable loop. The take up arm with its weight for regulating the strain.

### No. 11,204. Improvements on Farm Gates.

(*Perfectionnements aux barrières.*)

William Brown, Easton's Corners, Ont., 29th April 1880; (Extension of Patent No. 4,716), for 5 years.

### No. 11,205. Combined Pen and Ink-Holder.

(*Plume-fontaine.*)

The MacKinnon Pen Company, New York, U. S., (Assignee of Duncan MacKinnon, Stratford, Ont.,) 3rd May, 1880; (Extension of Patent No. 4,809), for 5 years.

### No. 11,206. Combined Pen and Ink-Holder.

(*Plume-fontaine.*)

The MacKinnon Pen Company, New York, U. S., (Assignee of Duncan MacKinnon, Stratford, Ont.,) 4th May, 1880; (Extension of Patent No. 4,809), for 5 years.

### No. 11,207. Improvements in Traction Engines.

(*Perfectionnements aux machines de traction.*)

Charles G. Cooper, Mount Vernon, Ohio, U. S., 7th May, 1880; for 5 years.

*Claim.*—1st. The combination, with the rotating pawl carrier and one more pairs of pawls carried by the same, of the reversing disc capable of a movement of partial rotation independently of the pawl carrier, and provided with one or more tongues projecting one between each pair of pawls, and a friction device to retard the movement of the said disc, when the latter is not engaged with the pawl carrier; 2nd. The rotating reversing disc, provided in its hub with one or more friction blocks, in combination with means for pressing said blocks more or less closely against the journal or axle on which said disc moves; 3rd. An automatic double acting pawl and ratchet mechanism, a pawl carrying wheel provided with spokes, spaced as specified, in combination with a reversing disc provided with a tongue which projects through the wheel between said spokes into the space between the pair of pawls on said wheel; 4th. The combination, in a traction engine with double acting automatic pawl and ratchet mechanism, operating as described, on the inclined shaft, the engine shaft, the gear g and the gears h i movable lengthwise on the engine shaft.

### No. 11,208. Improvements on Vehicles.

(*Perfectionnements aux voitures.*)

Moritz Schmidt, Hanover, and Charles Wiser, Walkertown, Ont., 7th May, 1880; for 5 years.

*Claim.*—1st. The combination of a spring power attached to a wheel