

shafts B, with cams a, a₁, and a₂. 4th. The arrangement and combination of the shaft e, carriage L, block N, shaft K, frame K₁, divided half nuts m, m₁, and spiral springs n, n₁, for removing the formed clip from the muddrel I. 5th. The arrangement and combination of the spring pins P, bolts P₁, sliding blocks R₁, provided with pieces S, crank arms S₁, connecting bar J₂, and lever J₁, for simultaneously locking the cam shafts B, to the spur wheels G.

No. 5794. Machine for Making Clips for Railway Rail Joints.

(Machine à faire les éclisses pour les joints des rails de railrotes.)

John Forbes, Halifax, N. S., 16th March, 1876, (Extension of Patent No. 869), for 5 years.

No. 5795. Brick Machine. (Machine à briquer.)

Joseph Close, Woodstock, Ont., 16th March, 1876, (Extension of Patent No. 886), for 5 years.

Claim.—1st. The stamping stock D, the press gauge G, and roller pin E, attached to the rim of the wheel B, 2nd. The open spurs I, in the stamping box B, the covering plates K, the cross bar M, and weight box N, attached thereto by the chain P; 3rd. The lever Q, and ratchet R, 4th. The mould frame roller S, attached by a series of levers to the long lever V, the roller pin W, fixed to the rim of the wheel X, the lever weight Y, and lever block Z.

No. 5796. Horse Shoe Nail Machine.

(Machine à clou à cheval.)

Nelson W. Goodrich, Vergennes, Vt., U. S., 16th March, 1876, (Extension of Patent No. 1904), for 5 years.

No. 5797. Horse Shoe Nail Machine.

(Machine à clou à cheval.)

Nelson W. Goodrich, Vergennes, Vt., U. S., 16th March, 1876, (Extension of Patent No. 1904), for 5 years.

No. 5798. Improvements on Saw Mills.

(Perfectionnements aux scieries.)

Benjamin F. Crabtree, Amity, N. Y., U. S., (Assignee of F. N. Whitcomb), 20th March, 1876, for 5 years.

Claim.—1st. The conical pulley G, adjusted upon the end of the saw arbor B, by the end screw f; 2nd. The tubular box or bearing p, provided with a vertical projection n, on its upper and lower side and held by vertical screw pivots s, to form the self-adjusting bearings for the inner end of the counter shaft k; 3rd. The combination of the counter shaft k, eccentric bearing box t, and the collar or sleeve u, held by the vertical pivot screws r; 4th. The combination of the eccentric bearing box t, lever N, connecting bar o, shaft R, with arm P, and lever S, the segment a, with notch x and the spring hook y; 5th. The combination of the ratchet wheels H, H₁, on the shaft E, shells G, G₁, pawls m, m₁, springs n, n₁, links t, t₁, collars L, L₁, and shaft L₂; 6th. The combination of the shells G, G₁, having spring pawls m, and arm p, cast in one piece, and the shaft B, having notches a, a₁, and lever J; 7th. In combination with a head block A₁, and knee B₁, the short shaft a₂, and coiled spring o₁, extending up to the side of the knee and the bar d₂, projecting from said knee; 8th. The combination of the stationary bar P, with notches on its outer face with bent portion f₂, of the connecting rod R₁, and the notch e₂, in the head block.

No. 5799. Machine for Fastening Window Sashes. (Machine à assujettir les croisées.)

Levi H. Montross, Simcoe, Ont., 20th March, 1876, for 5 years.

Claim.—The combination of the arms C, C, having cam-shaped faces working eccentrically with the pivot E, and spring F.

No. 5800. Improvements on Pump Valves.

(Perfectionnements aux valves de pompes.)

Linus Hubbard and William A. Hart, Buffalo, N. Y., U. S., 20th March, 1876, for 5 years.

Claim.—1st. A steel or other hard metal valve seat piece C, provided with a wrench section E, valve seats D, D₁, and screws F, F₁, adapted to screw into the body H, on one side, and the cage B, on the opposite side. 2nd. A removable reversible double seated valve piece in combination with the parts B and H.

No. 5801. Machine for Drying Tobacco, Fruits, &c. (Machine à sécher le tabac, les fruits, &c.)

Joab Seales, Toronto, Ont., 20th March, 1876, for 5 years.

Claim.—1st. A box A, provided with dampers M, and ventilating shaft L, and heated by steam pipe K, in combination with travelling endless belts B, and C, 2nd. The scrapers O, provided with friction rollers R, and attached to the cross piece O₁, in combination with the springs R, and frame P, applied to the travelling belts B, and C; 3rd. The process for treating tobacco, fruit, and other materials, the said process consisting in passing the material to be operated upon, on endless travelling belts through a close chamber or box heated by hot air or steam, the said box being provided with a perforated steam pipe adapted to moisten the material when desired during its progress through the chambers and fitted with inlet and outlet flues for controlling the admission and exit of the air.

No. 5802. Oil Squeezer. (Pressoir à Huile.)

Edward Rawlings, Montreal, Que., (Assignee of H. Olsen), 20th March, 1876, for 5 years.

Claim.—1st. An oil squeezer constructed with two sides A, A, hinge B, squeezing surface of corrugated metal C, horse hair bands G, rods f, strip of leather L, metal strips I, and handle E.

No. 5803. Hydraulic Hoisting Machine.

(Élévateur hydraulique.)

William Askwith, Montreal, Que., 20th March, 1876, for 5 years.

Claim.—The combination of cylinder X, cover J, piston rod H, piston head I, gun block G, rope wheels D, E, F, three-way cock K, tank C, float cock S, check valve T, and cock V.

No. 5804. Improvements on Chairs.

(Perfectionnements aux chaises.)

Joseph A. Eno and Charles H. Sherraden, Council Bluffs, Iowa, U. S., 20th March, 1876, for 5 years.

Claim.—1st. The combination with the legs of a chair of the divided cross braces D, and clamps I.

No. 5805. Fire Extinguisher.

(Éteincteur d'incendie.)

Joseph H. Connelley, New Brighton, Pa., U. S., 20th March, 1876, for 15 years.

Claim.—1st. The combination of a system of carbonic acid gas mains distributing pipes valves and connections to the several rooms or compartments in or parts of the building to be protected, and one more fixed or permanent carbonic acid gas generators connected with such system of mains for the supply of carbonic acid gas thereto for extinguishing fires. 2nd. The combination of a steam ejector nozzle with a system of main service and distributing pipes of a carbonic acid gas apparatus in order to employ steam in connection with carbonic acid gas in extinguishing fires. 3rd. The combination of a steam ejector with a line of hose from the carbonic acid gas service pipe for the throwing by the ordinary hose nozzle of a stream of commingled gas and steam; 4th. The combination of a gas ejector with the discharge pipe or orifice of a fire plug for the throwing of a stream of commingled gas and water in the extinguishing of fires. 5th. The combination of a gas hose, a water hose and a gas ejector at the place of union; 6th. The combination of a fixed or stationary receiver or receivers for the storage of water charged with gas under pressure with a carbonic acid gas main or generator, a water main and service pipes. 7th. A service or battery of portable gas receivers with a hose or pipe connection thereto, to and in combination with a hose leading from a fire plug or pump; 8th. The nozzle H, for throwing gas by steam pressure, having handles h, of a low heat conducting capacity.

No. 5806. Improvements on Churns.

(Perfectionnements aux barattes.)

John Wood, South Elmsley, Ont., 20th March, 1876, for 5 years.

Claim.—1st. The dasher shaft B, having the perforated vertical crank arms wings H, connected by a circular horizontal plate I. 2nd. The provision to the exterior of the chamber A, of the casing J, having internal ribs K, at the sides and bottom, and provided with inlet and outlet apertures L, M.

No. 5807. Improvements on Steam Engines.

(Perfectionnements aux machines à vapeur.)

William H. Law, Riverside, Pa., U. S., 20th March, 1876, for 5 years.

Claim.—1st. The combination with any stationary engine of the bed plate A, formed as an inverted arc and having chord B, with or without scroll end; 2nd. In any semi portable horizontal engine, the combination of the bed plate A, flanges H, and vertical boiler I; 3rd. In combination with the bed plate A, of any horizontal engine, the hollow cylinder K, attached thereto, spring N, and pin L, secured to the axle of a pair of wheels; 4th. In combination with any vertical boiler, the flanged hollow cylinder K₁, having spiral spring inside it, and pin L₁, with axle of wheel formed upon it; 5th. In combination with the end of any connecting rod, the arrangement with the brasses S₁, S₂, of the brass S, with sloping upper surface corresponding with the under surface of the block T, hollowed out and filed in elastic material V.

No. 5808. Improvements in Gas Stoves.

(Perfectionnements dans les poeles à gaz.)

Charles Burnham and Joseph G. Taite, Philadelphia, Pa., U. S., 20th March, 1876, for 5 years.

Claim.—1st. The base A, reflector B, and gas ring D. 2nd. The combination of the reflector and gas ring with the radiating drum C.

No. 5809. Knitting Machine. (Machine à tricot.)

Jonas Hinekey, Norwalk, Ohio, U. S., 20th March, 1876, for 5 years.

Claim.—1st. The serrated bar I, thread carrier T, and looper C, 2nd. The teeth J, having the hooks 74. 3rd. In combination with the teeth J, having the hooks 74, the grooves 10; 4th. The thread carrier T. 5th. The thread carrier T, provided with the spring cap T₁, and throat 19. 6th. The spring cap T₁, provided with the hook 18. 7th. The looper C, cam 79, and lever P. 8th. The looper C, provided with the elongated stud 18. 9th. The finger 94 and 95, arranged to operate in combination with the looper C, teeth J, and the thread carrier T. 10th. The slot B, for actuating the finger 95. 11th. The rib 52, in combination with the slot B, and finger 95. 12th. The bracket Q, provided with the cam 79. 13th. The bracket Q, provided with the pin 24, and cam plate Z. 14th. The pitman R, extended to form the finger 94, or integral with the same in combination with the lever P. 15th. The finger 95 pivoted directly to the finger 94, and provided with the stud 93, and with a spring at its pivoted support 90. 16th. The tri armed lever P, pivoted to the bracket Q, and supporting the thread carrier T, looper C, pitman R, and stripper 22; 17th. The stripper 22, in combination with the looper C, carrier I, teeth J, and fingers 94 and 95. 18th. The stripper 22, provided with the spring 21, to permit it to yield in passing under the teeth of the bar I. 19th. The stripper 22, provided with the fingers 125. 20th. The adjustable thread guide F, in combination with the carrier T; 21st. The pitman R, provided