No. 5899. Improvement in Studs.

(Perfectionnement dans les boutons de chemises.)

John B. Bennett & Walter Bennett, Halifax, N.S., 6th April, 1876, for 5 years.

Claim.—The combination of the head A, having a recess a_1, stem B, and pin b_1, with the back plate C, provided with a tubular shank D, having a flange c, and a right angled slot d_1, at its upper end.

No. 5900. Improvements on Seeders and Cultivators.

(Perfectionnements aux semoirs et aux cultivateurs.)

Richard Sylvester, Enniskillen, Ont., 6th April, 1876, for 5 years.

Claim.—1st. The share stem B_1, pivoted on the draw beam A, hinged links C, and C^1, and block D, in combination with the adjustable stop E, or its equivalent; 2nd. The combination with the pivoted share stem B_1, links C, and C^1, block D, and adjustable stop E, of the spring G; 3rd. The feed cup H, provided with the downwardly and forwardly inclined tubular extension H_1, in combination with the independently placed distributor I.

No. 5901. Improvements in Steam Fountain Washers. *(Perfectionnements aux laveuses à vapeur.)*

Henry R. Robbins, Baltimore, Md., U. S., 6th April, 1876, for 5 years.

Claim.—1st. The combination with the box or trap A, having convoluted channel a^1, guards a^2, inclined a^3, and pipe a^4, of the steam pipe E, entering one of the convolution channels in the direction of the flow thereinto of the water, and connected with the steam boiler; 2nd. The combination with a box or trap A, with no bottom having convoluted channel a^1, guards a^2, incline a^3, and pipe a^4.

No. 5902. Railroad Crossing and Switch.

(Traverse et aiguille de railroute.)

Joseph S. Williams, Riverton, N. J., U. S., 6th April, 1876, for 5 years.

Claim.—1st. Causing the cars to cross the rail by the automatic action of the wheels of the cars, or by the weight of the cars, either by the tread or flange upon movable rails of the track movable or stationary guards, or elevations in connection with mechanical devices for forcing the rails to be travelled over in the line of the rail on which the cars are moving or are to move, and for holding them in proper position by devices of similar construction, and for holding or forcing the switch rails in such a position as to keep the main lines intact, except when positively held differently by a superior power, and for protecting the main line so as to prevent the cars running of the track at any point of the switch or crossing, and making a continuous rail at any or all the switch rails or rail crossings either on the main line or side track; 2nd. Effecting the rail crossing at either or both ends of the switch rail or rails; 3rd. Effecting the rail crossing at the point of switching off the main line without tapered or planed rail to be travelled over on the main line track without elevating cars with but one of the main line rails movable; 4th. Effecting both rail crossings at points of switching from or leaving the main line by reversing the motion of the switch rail; 5th. Effecting rail crossings at points of switching off or elsewhere with inflexible bearings for main line rail or rails so as to not to allow them to pass outside of gauge of main line track; 6th. The locking and unlocking of switch rails automatically; 7th. A tapered rail in combination with a stationary guard; 8th. A solid rail or rails solidly fish-plated or secured opposite solid rail switch or rail crossing, 9th. Switch rails with the ends approaching each other taking reversed motion to effect rail crossings.

No. 5903. Method of Ventilating Buildings without Lowering the Temperature.

(Mode de ventilation des bâtiments sans faire tomber la température.)

Robert Thomas, Toronto, Ont., 6th April, 1875, for 5 years.

Claim.—1st. The pipes D, having registers C, and forked branches E, and F, provided with dampers G, and H, in combination with a heating furnace I; 2nd. The pipes D, provided with registers C, in combination with the cold air pipe B, or its equivalent.

No. 5904. Flexible Joints for Water Pipes.

(Joints élastiques pour les tuyaux d'eau.)

Robert Thomas, Toronto, Ont., 6th April, 1876, for 5 years.

Claim.—1st. A flexible joint for iron piping made by two elbow-shaped flanged ends B, butted together and secured by a nut and bolt C; 2nd. A double elbow-flanged pipe E, the openings thereof being at right angles to each other in combination with the pipes A, and bolts C; 3rd. The length of pipe A, connected to the main pipe by the flexible joint in combination with the legs or supports F, F.

No. 5905. Improvements on Hinges.

(Perfectionnements aux charnières.)

John B. Winters and Porter Williams, London, Ont., 6th April, 1876, for 5 years.

Claim.— The flat twisted pin A, slotted plate D, bearing plates B, F, G, and round pin H.

No. 5906. Machine for Stretching Lace Curtains. *(Machine à étendre les rideaux de dentelles.)*

James A. Green, Toronto, Ont., 6th April, 1876, for 5 years.

Claim.—1st. The combination of uprights and cross-bars filled with small pins of brass or other material; 2nd. The mortises in uprights E, E^1, and slot in uprights E^1.

No. 5907. Pneumatic Fire Extinguisher.

(Extincteur pneumatique d'incendie.)

Alexander A. Murphy, John Taylor and William E. Hayward, Montreal, Que., 6th April, 1876, for 5 years.

Claim.—1st The arrangement of cocks and hose for charging the extinguisher by hydraulic force through the discharge hose; 2nd. The arrangement of compartments or vessels for compressing air in one compartment or vessel by forcing water into the other compartment or vessel; 3rd. The arrangement of the cock F, and tubes E, E, whereby the stuffing box at the handle A, with the air valve B, are all placed below the water mark and the machine thereby made perfectly air tight; 4th. The vessel U, and W, in connection with the arrangement of cocks and hose whereby certain important results are obtained.

No. 5908. Treenail Machine. *(Machine à gournable.)*

Samuel H. Newcomb, Port Williams, N. S., 6th April, 1876, for 5 years.

Claim.—1st. The flaring jaws G, adjustable concentrically and simultaneously; 2nd. The frame J, and J, K, operated simultaneously by the screw O, and engaging with the jaws G; 3rd. The knife block P, fixed to one of the jaws G, moving in a uniform plane tangential to the axes of rotation; 4th. The provision to the knife block P, of a screw S, for tightening the holding of the knife and to regulate the adjustment.

No. 5909. Safety Platform for Railway Cars.

(Plateforme de sûreté pour les voitures de railroutes.)

Charles B. Crease, Barrie, Ont., 6th April, 1876, for 5 years.

Claim.—The platform A, attached to the car sill B, by the projecting hinges C, in combination with the folding bracket D.

No. 5910. Improvements in Sap Buckets.

(Perfectionnements dans les seaux à sève.)

Elijah E. Spencer, St. Armand, Que., 6th April, 1876, for 5 years.

Claim.—1st. A sap bucket A, having a perpendicular bend or hollow B, from top to bottom to steady it; 2nd. The combination of the cover C, the downward wings or corners D, the downward projecting pieces H, and the notch E, for the spout with a sap bucket A, 3rd. The combination of the spring hasp hinge F, allowing the cover C, to project over the edge of the bucket and to turn back against the side of the sap bucket with the cover C, and sap bucket A.

No. 5911. Improvement in Gas-burners.

(Perfectionnement des becs à gaz.)

George A. Larminie and John H. Gordon, Toronto, Ont., 6th April, 1876, for 5 years.

Claim.—A thin knife or rounded edge blade B, attached to the burner A, by the ferrule-shaped spring clip C, or other efficient mechanical means and so supported thereby that the plate B shall form a channel longitudinally through the centre of the flame admitting air therein for the purpose of producing more complete combustion of the particles of carbon contained in the gas and thus increasing the brilliancy of the flame.

No. 5912. Improvements on Straw-cutters.

(Perfectionnements aux hache-paille.)

Alexander Anderson, London, Ont., 6th April, 1876, for 5 years.

Claim.—1st. Guide rods E, E_1, slotted arm F, pins b, e, nuts and collars c, f, i, and j; 2nd. The spring G, in combination with the lever D, and frame A; 3rd. The arrangement in combination with the above of an angular feed trough I_1; 4th. The combination of arm F, guide rods E, E_1, lever D, and spring G, with knife B, and frame A.

No. 5913. Side-walk Fastener.

(Ajustage de trottoirs.)

William Brisley, Toronto, Ont., 6th April, 1876, for 5 years.

Claim. — 1st. A fastener made of iron or any other suitable material designed as a substitute for nails and spikes and consisting in a shank B, and ends A, and C, bent at right angles to each other or at any other angle thereto which would permit the fastener thus formed to connect the planks E, and E_1, and the sleeper D; 2nd. The locking plank G, having channels gouged in its edges in combination with the side F, or its equivalent.

No. 5914. Improvements on Rotary Engines, Rotary Pumps and Fluid Meters.

(Perfectionnements aux machines et aux pompes rotatoires et aux hydromètres.)

William Carey and John Bulman, Montreal, Que., 6th April, 1876, for 5 years.

Claim.—1st. The combination of the recess b, disc h, tongue n, openings i, and k; 2nd. The combination of the recess b, disc h, tongue g, openings i, and k; 3rd. The combination of the crank or eccentric g, with disc h, having tongues g, or n, and cylinder r, or o.

No. 5915. Improvements in Hydraulic Machinery.

(Perfectionnements aux machineries hydrauliques.)

James Canau, Port Colborne, Ont., 6th April, 1876, for 5 years.

Claim.—A vertical metallic cylinder C, connected by suitably arranged piping to force pump and provided with a plunger E, having a block F in which is held the lifting arm G, in combination with the strap H, and anchor B.