No. 4174 DAVID JONES, Millburn, Inverness, Scotland, 15th December, 1874, for 5 years: "Improvements in Lubricators." (Perfectionnements aux graisseurs.)

Claim.—The adoption and use of the construction of lubricator cup or reservoir, to the cylinder or valve, which operates by partial vacuum at each stroke of the piston and by the influences of gravity and capillary attraction with small area opened to the cylinder or valve, covered by a pad or a retarder regulating the quantity of lubricant to the cylinder or valve.

No. 4175. CYRENIUS C. ROE, Hamilton, Ont., 15th December, 1874, for 5 years: "Steam Man or Walking Machine." (Mannequin à vapeur ou machine ambulante.)

Claim.—1st. The arrangement of a steam man as shown having the combination of levers F, driven by the crank shaft G, H, and piston K, of the cylinder C, or by two crank shafts and cog gearing as shown in Fig: 3, as specified also the arrangement of the steam pipe B, enclosed in the hollow shaft G, to the cylinder C, as shown or through the arm, all arranged as specified.

No. 4176. ROBERT THOMAS, Toronto, Ont., 15th December, 1874, for 5 years: "Cooking Stove." (Poele de cuisine.)

Claim.—1st The general arrangement in the construction of the stove as specified; 2nd. The combination with the circular grate Q, of the oven D, and dome C, of the water vessel or boiler A, of the top F, cover H, and rib R, of the draught doors P, P, raised flue S, and chimney G, as set forth; 3rd. The device of extending the dome or cone C, up into the centre of the fire chamber, thus making the fire a circular one, and surrounding it, and applicable to heating as well as to cooking stoves.

No. 4177. JOHN CAMPBELL, Almonte, Ont., 15th December, 1874, for 5 years: "Improvements on Churns." (Perfectionnements aux barattes.)

Claim.—1st. The bars B, hinged at their upper ends to a fixture or beam, and connecting with the churn to prevent lateral motion when oscilating; 2nd. Providing the cream chamber A, with an internal cream breaker F, and cutter G, arranged and applied as set forth; 3rd. The agitating wheel H, and cord I, for operating the same, in combination with a cream chamber oscillating as described; 4th. Constructing the cream chamber with a raised rectangular cover C, provided with air apertures D, E, as set forth; 5th. Providing the cream chamber with an outlet J, for discharging the milk; 6th. Providing the cream chamber with feet K, as described.

No. 4178. GEORGE A. KEENE, Lynn, and FRANCIS A. SAWYER, Boston, Mass., U. S., 15th December, 1874, for 5 years: "Carriage and Car Step." (Marche-pied de voiture et de wagon.)

Claim.—1st. The subdivision of a rubber cushion or pad applied to the step of a vehicle into ridges to enhance its ready resiliency 2nd The combination of a rubber cushion or pad divided into sections of different resiliency by different thicknesses of rubber. 3rd. The combination with such a pad of an internal plate or other equivalent strengthening material to resist the tearing action of the fastenings: 4th. The arrangement in the depression in the surface of such pad so that they may have free communication with depressed sections on the edge; 5th. Re-inforcing the front edge of such pad by beads or sections of beads of greater thickness and substance than the rest of the pad; 6th. The arrangement and combination of the plate shown in Figs. 7 and 9, with its rubber cover; 7th. The arrangement and combination of the stud *l*, and detachable shank *s*; 8th. The arrangement and combination of the plate shown in Fig. 8, with its rubber cover for the purpose of supporting the edge of the upwardly presenting rubber, each and all as described.

No. 4179. USSIUS B. LABERGE, Montreal. Que., 17th December, 1874, for 5 years: "Ironing Table." (Table à repasser.)

Claim.—1st. The combination of an ironing table A, having an elliptical end B, with the folding trestle F, constructed as described; 2nd. The combination of the dove-tailed groove *c*, and slat C, with an ironing table A, as set forth.

No. 4180. DAVID BISSELL, Detroit, Mich., U. S., 17th December, 1874, for 15 years: "Arm Splint." (Eclisse pour les bras.)

Claim.—The combination of extensible concavo-convex clamping plates A, or B, clamping bars C, and adjusting screws G; the combination of extensible clamping plates A, B, bars C, adjusting screws G, jointed rods E, and an adjustable fastening as I, J, K the combination of pressure springs L, and adjusting screws M, with the clamping plates B, the springs, arranged to extend out of the plates along the wrist for supporting it, the combination of a clamp for the arm, also a clamp for the fore-arm and rods E, one of said clamps being contrived to adjust along the rods to extend the fractured parts, a splint composed essentially of zinc clamping plates, the combination of zinc facing plates, with the pressure spring as specified.

No. 4181. CHARLES PARHAM, Valleyfield, Que., 17th December 1874, for 5 years: "Improvements on Suction and force pumps." (Perfectionnements aux pompes aspirantes et foulantes.)

Claim.—The stalk *a*, tube *i*, and cylinder *c*, constructed and arranged as described.

No. 4182. FRANK MOSES, Toronto, Ont., 17th December, 1874, for 5 years: "Heating Apparatus." (Appareil de chauffage.)

Claim.—The metallic coil F, G, and the tube A, A, to conduct the cold air into the said coil, as set forth.

No. 4183. CHARLES CLUTHE, Hamilton, Ont., 17th December, 1874, for 5 years: "Improvements on Truss-pads." (Perfectionnements aux bourlets des bandages herniaires.]

Claim.—The spiral spring of metal working on a centre covered or uncovered to be used as a truss-pad.

No. 4184. HORACE E. ROWE, Brockville, Ont., 17th December, 1874, for 5 years: "Feather Renovator." (Machine à raffraichir la plume.)

Claim.—1st. The chemical holder B, connected to the boiler A, and communicating with the steam pipe D, for conveying any chemical agent along with the steam to the feather chamber E; 2nd. The tubular perforated feather chamber E, and steam jacket G, arranged within the outer casing F, and having a conducting steam pipe or pipes D, connecting with the boiler A, and chemical holder B, as set forth.

No. 4185. ALFRED D. GRISWOLD, New York, U. S., 17th December, 1874, for 10 years: "Feather Duster." (Plumeau.)

Claim.—1st A feather dusting brush constructed of a series of bunches of feathers A, or of single feathers, each of said bunches or single feathers being secured to one end of an elastic stem or prolongation B, secured to the head of the handle C; 2nd. In combination with the subject matter of the foregoing claim in a crown or shield D, constructed of feathers *b*, secured between two strips of canvas or other suitable material *c*, as described.

No. 4186. MAGLOIRE THIBAULT, Hull, Que., 17th December, 1874, for 5 years: "Capstan." (Cabestan.)

Reclame.—1o. La combinaison du levier K, du joug G, des coulisseaux H, H¹, avec le cabestan A, pour lever l'axe de vis sans fin L, et la dégager de la roue d'engrenage N; 2o. La combinaison d'un cabestan muni d'un joug G, et de ses appareils tel que décrit, avec un viadas, un treuil, une chèvre, Figs. 4, 5, 6, une grue, Figs. 7, 8, 9, au moyen des roues d'angle U, V, tel que décrit.

Claim.—1st. The combination of the lever K, with the yoke G, of the grooves H, H¹, with the capstan A, for raising the axis of the endless screw L, and to disengage it from the gear wheel N. 2nd. The combination of capstan provided with a yoke G, and of its apparatus as described, with a windlass, a derrick, a crab winch Figs. 4, 5, 6, a crane, Figs. 7, 8, 9, by means of pinion wheels U, V, as described.