

No. 3292. ROBERT SMALLWOOD, Charlottetown, P. E. I., 10th April, 1874, for 5 years: "Lever Feed for Shingle Sawing Machines." (Lévier alimentateur pour les machines à scier le bardeau.)

*Claim.*—The combination of the wheel A, frame D, lever E, roller G, and pitman H, for operating the block carriage of a shingle sawing machine.

No. 3293. THOMAS H. MARSH, Toronto, Ont., 10th April, 1874, for 5 years: "Agitator for Bird Shooting from the Trap." (Agitateur pour le tir des oiseaux au sortir des trappes.)

*Claim.*—An agitator consisting of the frame B, with or without the side stays B', and connected by spiral springs D, or their equivalent, to the stationary staples A, and manipulated by the string C, arranged and operating as described.

No. 3294. JAMES H. THORP, Chicago, Ill., U. S., 15th April, 1874, for 5 years: "Portable Burglar Alarm." (Détecteur de voleur portatif.)

*Claim.*—1st. A portable burglar alarm having a revolving bell B, actuated by clock mechanism, 2nd. Maintaining the thread J, in an adjusted letting off position by the spring K, applied and operating as described; 3rd. The thread J, having a spring match holding aperture K', the adjustable friction plate L, and the taper holder M, arranged and operating as set forth.

No. 3295. THOMAS K. KNAPP, Dansville, N. Y., U. S., 15th April, 1874, for 5 years: "Knife and Scissors Sharpener." (Remouleur de couteaux et de sciseaux.)

*Claim.*—1st. The combination of the revolving steel cutter D, provided with three angular bevelled edges more or less and grooves c, c, around its periphery with the case A, constructed in the manner specified; 2nd. The centre slot a, of the sharpener case A, in combination with the lips a, a, and slots a', a', and disc D, for sharpening scissors as specified.

No. 3296. THOMAS K. KNAPP, Dansville, N. Y., 15th April 1874, for 5 years: "Improvements in Mops." (Perfectionnements aux balais à laver.)

*Claim.*—1st. The semi-hexagonal heads a, a, for holding the cloth k, adjusted by the thumb screws e, e, in the octagon rods c, c; 2nd. The arrangement of the thimble o, on the handle a, provided with projections containing semi-octagonal slots at each end to retain the octagonal rods c, c, as specified; 3rd. The arrangement of the spring f, fastened to handle a, by a pin g, constructed to pass under the thimble b, and ferrule m, and provided with projections n, o, to catch in the notches of the thimble and ferrule as specified; and 4th. The octagonal shaped rods c, c, secured to the thimble as shown by pins i, i, riveted to the upper hexagonal plate g, provided with thumb screws e, e, and the lower portions of the rods running parallel with each other and the upper portions bent outwards as specified.

No. 3297. THOMAS PIPER, Hamilton, Ont., 16th April, 1874, for 5 years: "Clutching Device for Driving Sewing Machines." (Appareil à griffe pour faire mouvoir les machines à coudre.)

*Claim.*—1st. The combined screw and clutch box H, M, driven by the nut I, which is driven by the belts J, J, and treadles A, K, in combination with the fly or drive wheel G, for operating sewing machines; 2nd. The arrangement of the screw clutch H, recessed on the outside as shown in Fig. 3, having rollers C, and springs c, when combined with the hollow hub f, and solid hub h, of the fly or drive wheel G; 3rd. The arrangement of the hubs g, g, attached to the fly wheel G, in combination with the clutch springs i, i, and screw and clutch H, as shown in Fig. 3; 4th. The combination of the clutch springs i, i, with the pulleys N, N, and operated by the straps or rods J, J, and 5th. The fly wheel G, constructed with a recessed solid hub h, on one side and a hollow hub f, on the other as shown in Fig. 2.

No. 3298. RYERSON PORTER, Bothwell, Ont., 16th April, 1874, for 5 years: "Auger for Boring Pump and other Tubes." (Tarière à percer les tuyaux de pompes et autres.)

*Claim.*—1st. The application of the tube for the purposes set forth 2nd. The combination of the cutter d, d, with the tube a, a, and the collar f, f; 3rd. The combination or attachment of the coil or worm c, c, to the tube a, a, for the purposes set forth.

No. 3299. BURDETT L. ROWLEY, New Britain, Ct., U. S., 16th April, 1874, for 5 years: "Bridle Bit." (Mors de bride.)

*Claim.*—A bridle-bit having the portion A, which is contained within the mouth of a horse, covered with leather C that is arranged with the edge of its grain to the wear upon said part.

No. 3300. THOMAS T. PEARSON and CHARLES A. McLANE, Hopewell Corner, N. B., 16th April, 1874, for 5 years: "Steam Generator." (Générateur de vapeur.)

*Claim.*—Admitting water slowly into the steam chamber B, B, B, so that it may be in sufficient supply to generate the necessary steam and without being in quantity sufficient to check the operation in the cold water chamber attached to the steam generator together with the vent V, as shown in drawing.

No. 3301. HECTOR MACKINNON, Toronto, Ont., 16th April, 1874 for 5 years: "Coal Oil Cooking Stove." (Poêle de cuisine à pétrole.)

*Claim.*—1st. Forming an air chamber between the top deck E and bottom deck H, with partitions or guards h, arranged thereon around which the air must pass in a zig-zag direction before reaching the flames, 2nd. The application to a coal oil lamp of an open water font B, placed above the wick pinions; 3rd. The wick tubes c, c, in combination with the open water font B, and air chamber D, having guards or partitions h, arranged therein; 4th. The peculiar shape of the chimneys F, F, contracting towards and expanding at the flame; 5th. The peculiarly shaped chimneys F, F, in combination with the perforated plate D, and wick tubes c, c; 6th. The hot water reservoir I through which the oblong flues G, G, pass in, in combination with the chimneys F, F, and bolt g; 7th. The steam pipes n, passing within the space between the outer and inner side of the oven L, in combination with the reservoir I; 8th. The steamers N, N, and oven L, with flange ring K, supported by the tripod R, in combination with the reservoir I; 9th. The flat iron heater P, in combination with the chimneys F, F; 10th. The detachable cover Q, sitting on the heater P, and guided into its place by the guide bar q, as specified.

No. 3302. JOHN BIRKS and JOSEPH C. JOUFFRAY, Montreal, Que., 16th April, 1874, for 5 years: "Ginger Porter." (Bière de gingembre forte.)

*Claim.*—A compound to be called indifferently ginger porter and ginger stout and ginger port composed of effervescing water, simple syrup, tartaric acid, alcohol, essence of ginger, and burnt sugar with flavouring substances, added according to circumstances in the proportions set forth.

No. 3303. THOMAS ROBERTSON, Toronto, Ont., 16th April 1874, for 5 years: "Machine for Shaping Lozenges." (Machine à tailler les pastilles.)

*Claim.*—1st. Fashioning the ordinary lozenge of commerce when hard, with oval or moulded faces, or with chamfered edges; 2nd. Shaping the faces of lozenges, by the action of revolving cutters C; 3rd. The revolving reciprocating cutter shafts, C, C, with cutter heads E', driven by belts, or their equivalent in combination with the revolving shaft B, arranged and operating as described; 4th. The revolving shaft D, wheels E, with eccentric channels e, and e, in combination with the levers F, F, arranged and operating as described; 5th. The revolving shaft D, wheel E, with cam c, in combination with the lever G, arranged and operating as described; 6th. The revolving shaft D, wheel D', and wheel D'', with inflected channel d, cut in hub, in combination with the rods H, and sliding frames I, arranged and operating as specified; 7th. The levers F, and F', with spring guard f, in combination with the lozenge holder E', arranged and operating as described; 8th. The levers F, F', with spring guard f, in combination with the feed tube K, with or without the detachable boxes K', arranged as specified; 9th. The lever F', and holder F', in combination with the revolving outer C', arranged and operating as described; 10th. The spring guard f, in combination with the pin f, arranged as specified; 11th. Feeding lozenges to any required shape by abrasion; 12th. Feeding the lozenges to the cutters through passages which allow of but one row of lozenges at a described.

No. 3304. CLARK R. SHELTON, New Haven, Ct., U. S., 16th April, 1874, for 10 years: "Driving Whip." (Fouet de voiture.)

*Claim.*—1st. In combination with the stock B, the socket C, and tip A, when the socket is constructed with the covering thimble f, at its upper end or a, at its lower end, or both, and threaded upon its inside to receive the tip; 2nd. In combination with the stock B, tip A, and internally threaded socket C, the ferrule a, upon the lower end of the tip as specified.