

in which the main axle is composed of a series of separate pieces forming its length; 14th. A cleaner rod projected rearward from the main axle or other supporting part of the machine, and stiffened by any suitable brace or strengthened, in the manner described.

No. 4217. HIRAM J. WATTLES, Toronto, Ont., 7th January, 1875, for 5 years: "Vegetable Washer." (Laveuse à légumes.)

*Claim.*—1st. The combination of the crank handle A, half lid B, and shaft D, 2nd. The combination with crank handle A, and the shaft D, lid B, and tub C, as set forth.

No. 4218. JOSEPH R. SMITH, Brockville, Ont., 7th January, 1875, for 5 years: "Clothes Wringer." (Essoreuse à linge.)

*Claim.*—1st. The hanger G, mounted on the roller journal and having a projecting pin or axle H; 2nd. The combination of the hanger G, pinion J, and cog wheel K, with the roller journal for transmitting motion through the cog gears E, F, to the opposite roller; 3rd. The spring bar L, formed of one piece of wood having saw incisions M, N, longitudinally to give elasticity to the bar; 4th. The wooden spring L, composed of a series of horizontal bars or leaves formed by the incisions M, N, extending from end to end, as set forth.

No. 4219. CHARLES A. TERREY, London, Eng., 7th January, 1875, for 5 years: "Setting Diamonds in Drills and Cutting Tools." (Montage des diamants dans les forets et les instruments tranchants.)

*Claim.*—1st. The novel combination of the drill A, cap B, and diamonds a, a, constructed and arranged in the manner described; 2nd. The combination of saw A, or its equivalent, caps B, and diamonds a, a, constructed as described.

No. 4220. JOHN A. STOCKWELL, Lynn, Mass., U. S., 7th January, 1875, for 5 years: "Improvements on Boots and Shoes." (Perfectionnements aux chaussures.)

*Claim.*—1st. The wire or cord d, placed within a tip for boots or shoes, as set forth; 2nd. A combined tip and half sole for boots and shoes, made from a strip of leather or other material, and having a portion of its inner edge cut away as at i, as shown, so that it can be formed into the desired shape.

No. 4221. JOHN C. STURGEON and CARSON J. STURGEON, Erie, Pa., U. S., 7th January, 1875, for 5 years: "Lawn Mower and Harvester." (Fancheuse-moissonneuse.)

*Claim.*—The pivoted pinions L, L, revolving on studs M, attached to the driving wheel A, A, in combination with the fixed toothed wheel B, B, forming the ends of the frame of lawn mower and ratchet pinions J, J, on the common shaft C; the revolving cutters D, D, attached to the shaft C, working in bearings on the fixed ends B, B, in combination with the adjustable stationary cutter E, attached to the fixed ends B, B, the adjustable cutter bar slides G, with slots g, in combination with the fixed ends B, B; the combination of rotary cutters with loose driving wheels when both are mounted on the same shaft or on a common axis or centre; the combination of the fixed inside geared wheels B, B, forming the ends of the mower frame horizontal revolving cutters working in suitable bearings on the saw ends with loose driving wheels A, A, mounted on the ends of the shaft of the revolving cutter or on a common axis or centre with the same; The flanges a, a, on the driving wheels A, A, in combination with the fixed ends B, B; the spring pawls P, fitting in slots sunk in the shaft C, in combination with the notches i, cut in the toothed wheels J, arranged and operating as described.

No. 4222. JOHN LENNERTON, Princeport, N. S., 7th January, 1875, for 5 years: "Treenail Wedge Machine." (Machine à gournables.)

*Claim.*—1st. The cylinder and knives in the same, adjusted upon a shaft and adapted for the purpose of cutting treenail wedges to any required size; 2nd. The adjustment of a circular saw in connection with the cylinders for the purpose of cutting treenail wedges to any required length; 3rd. The peculiar construction of frame and table to which the cylinders and saw are affixed and in which they operate, adapted to the purpose of the machine.

No. 4223. JOHN W. ELLIOTT, Toronto, Ont., 7th January, 1875, for 5 years: "Machine for the Application of Croton Oil, &c." (Machine pour l'application de l'huile de croton, &c.)

*Claim.*—The instrument for the application of croton oil, or other similar counter irritant, the said instrument consisting of the case A, with perforated membranous a, and a, compound tapering stopper B, collar a, thumb B, circular brush E, and pivoted roller F, studded with needle points G, all arranged and operating as described.

No. 4224. JOSEPH VESSOT, Sr., and SAMUEL VESSOT, Jr., Joliette, Que., 7th January, 1875, for 5 years: "Harrow and Roller Combined." (Herse-rouleau combinés.)

*Résumé.*—Les améliorations au sujet a, à la boîte à grain b, dont le demi rond ou rouleau cylindre est en fonte au lieu de bois, et pourvu de caoutchou pour raser le grain. la boîte à grain de mil c, qui est entièrement nouvelle dans toutes ses parties, telles que décrites aux lettres d, f, g, h, i, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z; la boîte à pocho, et la boîte à outils m, la boîte à engrais p, dont le fond est semblable à celui de la boîte à grain de mil. l'excentrique u, du bras j, et de l'équerre k, le va-ou-vient v, avec ses griffes l, la barre de fer plato, qui fait tourner la poulie q, les tuyaux x, terminés en caoutchou, ainsi que les tuyaux y, dans le brasso-grain m, avec sa poulie k, le racloir h, avec ses ressorts t, la manivelle du régulateur m, la manivelle dont l'un des bouts du rouleau est fixé à l'essieu avec une gouppille, les supports on fonte j, le brancard q, construit avec une barre transversale qui lui donne plus de solidité, la manivelle dont la perche o, est adaptée à la barre transversale et les travaux r, au brancard q, dans le nouveau levier x, avec sa demi-roue p, son excentrique u, et sa chaîne v, les ferrures c, et r, les crochets b, les étriers u, les liens e, et e, le nouveau patron des dents de herse t, et t, et la manivelle de les adapter aux ressorts o, l'amélioration des deux lames d'acier au lieu d'une dans les ressorts a, le garant d, le nouveau débrayeur e, la boîte z, les trous t, du cylindre à semer et l'amélioration dans la manière d'ou verser les dents sur le long au lieu de biais pour former les compartiments t, et t, les roues d'engrenage o, p, et q, et la manivelle dont elles sont adaptées au support j.

No. 4225. RICHARD B. ANDERSON, and MILTON ANDERSON, Sackville, N. B., 7th January, 1875, for 5 years: "Improvements on Necktie Holders." (Perfectionnements aux attache-cravates.)

*Claim.*—The combination of the spring A, A, for the purpose set forth.

No. 4226. GEORGE W. McNEIL, Akron, Ohio, U. S., 7th January, 1875, for 5 years: "Wheat Scourer." (Emoteur à blé.)

*Claim.*—The revolving stones D, and stationary scouring plates stones or brushes, constructed as set forth, in combination with the hopper a, the cylindrical edge of which is perforated and projects above the space between the revolving stone, and the stationary scouring plate stone or brush as described.

No. 4227. RUSSELL COBLEIGH, Chester, Vt., U. S., 7th January, 1874, for 5 years: "Children's Carriage." (Voiture d'enfants.)

*Claim.*—1st. The moveable platform C, and its operative bent levers D, e, and connection rods E, combined with the body I, the seat B, and the moveable back A; 2nd. The moveable platform C, and its operative bent levers D, e, connections rods E, and rest F, combined with the body I, the seat B, and the moveable back A, as specified.

No. 4228. JAMES TELFER, Toronto, Ont., 7th January, 1875, for 5 years: "Lamp Holding Attachment to Sewing Machines." (Ajutage des lampes aux machines à coudre.)

*Claim.*—The lamp holder C, having legs b, and hand springs d, to adapt it to hold a lamp on or off the swinging arm B, in the manner described.

No. 4229. EDWARD MERCIER, Springfield, Mass., MÉDÉRIC LANCTOT, Jersey City, N. J., and ARVID H. ELLIOTT, New York, U. S.,