No. 3749. AUGUSTIN S. TRUDEL, St. Antoine de Tilly, Que., 13th August, 1874, for 5 years: "Mode of Propelling Barges." (Système de propulsion des bateaux).

Réclame.—Imo. Les coques cylindriques F. F; 2mo. Les quilles en spirales telles que décrites.

Claim .- 1st. The cylindrical hulls F. F., 2nd The spirally formed keels as described.

No. 3750. CHARLES BUCHNER, Tilsonburg Ont., 13th August, 1874, for 5 years: "Machine for Washing Clothes." (Machine à laver le linge).

Claim - let. The combination of the cylinder A, with the flexible bottom B as set forth, 2nd The mode of suspending on pivots in vertical grooves C, the cylinder A as set forth.

3751. RAPHAEL GADONAS, Montreal, Que., 13th August, 1874, for 5 years: "Improvements on Gauge for Centre-Bits." (Perfectionnements aux jauges de vilebrequins).

Claim.—1st. A gauge A made of a tube in two pieces having butts C, C, to open and to shat the same, two lugs F, Fl, and a clainping serve D, as set forth: 2nd. The combination with the gauge of two pieces of leather E, E. to narrow the gauge's inside diameter and squeezing the bit as set forth.

No. 3752. LYMAN S. COLBURN, Oberlin, Ohio, U. S., 13th August, 1874, for 5 years; "Improvements on files." (Perfectionnements aux limes).

(l'aim. - File, having the angle or oblique direction of teeth thereof pointing the same way on both sides as set forth.

No. 3753. EZRA CASWELL, Lyons, N. Y., U. S., 13th August, 1874, for 5 years: "Hub-Boring Machine." (Machine à percer les moyeux).

Claim.—The train T, hooks h, screws n, and the adjustable removeable plate O, in combination with the shank M, tube F, plate L, and cutter k, all constructed and arranged as specified.

No. 3754. JULES A. SAVARD, Quebec, Que., 13th August, 1874, for 5 years: "Improvements on No. Clocks." (Perfectionnements aux horloges).

Récame.—La prolongation de arbro B de la roue de centre C, la combinaison des roues du contre C et d'engrenage D, avec la roue de champ centrale E, le tambour G qui reçoit les pivots des tiges à pignons H, H, la disposition des pignons I, I, et de la roue de champ J, J, de chaque cadran, le support recourbé a équerre L, et l'arbro K, qui communique aux rouages de la minutorie N. N, le mouvement imprimé par l'arbro B du mouvement de la pendule ordinaire tel que décrit.

le mouvement imprime par l'arbre B du mouvement de la penduie ordinaire tel que décrit.

Claim. The prolongation of the arbour B of the centre wheel C, the combination of the centre wheel C with the gearing D and the central cog wheel E, the cylinder G, which receives the pivots of the pinion rods B H, the arrangement of the pinions I I, and be cog wheels J J, of each dial, the bent support of the square, d the arbour K communicating with the wheel hub of the 1 to movement NN: the motion given by the arbour B from the concent of the ordinary pendulum as described.

No. 3755. Joseph Burns, Anamosa, Iowa, U.S., 13th August, 1874, for 10 years: "Well Boring Machine." (Machine à percer les puits).

Claim —The three-part auger consisting of the square shanked centering bit B, the spiral cutting blade U, adapted to be adjusted relatively to the centering bit and the spiral carrier D. resting upon and continuous with the blade C as described; 2nd. The vibrating layers R. R, provided with carrying pawls S, S, and pivoted loosely on auger shaft, in combination with the ratchet-nut T, as described. described.

No. 3756. Henry G. Thompson, and Bror F. BERGH, 13th August, 1874, for 15 years: "Tack Driving Machine." (Machine à chasser la broquette).

Quette).

(Vain.—1st. A magnetic hammer for the purpose of receiving, holding, and driving a tack combined with autoinatic machinery, constructed for operating and feeding the same as set forth. 2nd. A magnetic hammer in combination with non-magnetic feeding devices as described, 3rd. An meline II for receiving and delivering the tack when made of more than one angle as set forth; 4th. An angustable rod I for connecting the incline H. with the can levers J. as set forth, 5th. A rattler, 6th. The stationary head G of the teeding cylinder C. E. when made funnel shaped within said cylinder, 7th. One or more spring pins a arranged in the incline, 5th. A non-magnetic leeding incline, 9th. Hardened steel seat h, or its equivalent inhaid into a non-magnetic incline; 10th. A heardened steel pointer k or its equivalent; 11th. A recess or cup m at the foot of the incline, 12th. The combination of cam-movement for operating, and the separator for delivering the tack for presentation to the hammer; 13th. A stationary head in a revolving

cylinder and a brush n arranged as set forth; 14th. The tack channel a extending through the bottom of the incline II, and made tap ring as set forth; 15th. Giving an intermittent motion to the feeding cylinder by means of a bolk, when used in combination with clutch pulley whereby tacks are led upon an incline only when machine is operated for presenting tacks to the hammer; 16th. The combination of the clutch pulley for setting the mechanism of the machine in metion 17th. The whole Di, with recess h. and botches it, in combination with the pulley Gi, arm mi with projection mi, spring mi, and stop pl, pl. 19th. The bottom of the feed motion constructed to form a guard to prevent the displacement of the tacks as set forth; 19th. For lasting boots and shoes, a ball and socket joint in combination with a jinck for holding the last as described; 20th. For lasting boots and shoes, a ball and socket joint in combination with the ball and socket joint means as set forth; 22th. For lasting boots and shoes a "Balley's Jack" in combination with the ball and socket joint as set forth, 22nd. For lasting boots and shoes a "Balley's Jack" in combination with hammer for driving tacks, and hammer being operated by automatic means as set forth; 23th. An adjustable sleeve on top of the hammer; 24th. For lasting boots and shoes a spring spring on top of the hammer in combination with an adjustable sleeve enclosing said spring as set forth; 23th. The eleven N. with spring S within the same in comb nation with the hammer used for driving tacks as set forth; 23th. The combination of a spiral spring on top of hummer as set forth; 25th. The combination of a spiral spring on top of hummer as set forth cambination with the hammer used for driving tacks as set forth; 28th. Compressing spring on top of hummer by means of spiral spring she of hummer in advance of the regular movement of the parts, as set forth; 28th. Feeding or operating "to separator so as to cause the tacks to slide down incline to receiver on backward movement of cylin

No. 375. ROBERT SCOTT and SILAS L. COOK, Côte St. Paul, Que., 13th August, 1874, for 5 years: "Improvements in the Manufacture of Spades." (Perfectionnements dans la fabrication des bêches).

Caim.—1st. Spade, shovel or like implement or tool forming the part for the reception of the handle by welding to a shank B, left on the blade A, a sheet iron or steel strap, the lowe, part of which is formed into a socket C and the upper into two straps D, E, as described; 2nd. Spade, shovel &c. formed with a socket C, and straps D, E, for the reception of the handle F, as described.

o. 3758. George W. Harrison, Lansing Mich., U. S., 13th August, 1874, for 5 years: "Pitman Connection." (Raccordement des bielles).

Claim.—lsz. The combination with a pitman or connecting rod, metallic boxes and clastic blocks, 2nd. In combination with the recessed end of the pitman, the shouldered metallic boxes J, which together form an enclosed chamber to receive the clastic blocks O, as set forth; 3rd. In combination with the pitman having recessed end, the recessed cap P, clastic blocks O, metallic boxes J, and strap B, as set forth.

No. 3759. Thomas E. Mullins, Hopewell Corner, N. B., 13th August, 1874, for 5 years: "Steam Cooking-Apparatus." (Appareil de cuisine à vapeur.)

Claim.—1st The steaming chamber A, to receive the food pans, having a condensing jacket C, and provided with tube E, as set forth; 2nd. Providing steaming chamber A, and water chamber B with an annular raised ring I, and legs J, as set forth.

No. 3760. James W. Herington and James W. Stoares, Mill Point, Ont., 13th August, 1874, for 5 years: "Horse-Collar." (Collier de cheval.)

Claim.—1st. A horse collar facilized of iron, steel or other suitable metal, either uncovered, covered with leather or other material or padded and susting of the usrights A, A, joined by the base A, in combinatic, with the neck strap B, as specified; 2nd. The pivoted staples C, with eyes ci, in combination with the socket C, with shoulders c, attached to the collar A, as described.

No. 3761. ROBERT CHRISTIE, Hamilton, Ont., 13th August, 1874, for 5 years: "Improve ments in Reaping and Mowing Machines" (Perfectionnements aux faucheuses-moisson neuses.)

Claim.—Ist. The arrangement and combination of the lever C, rod E, thier binge A, lever stand B, operating the cutter-bar M, as specified; 2nd. The arrangement of the steady red, k, attached to lugs b, b,, as specified, 3rd. The arrangement of the opening h, in the tilter hinge A, for the bar H, to allow oscillation as specified; 4th. The arrangement of the push bar D, pivoted by pin d, in the slot N, of the tilter hinge A, as specified; 5th. The motalite guard G, east to the frame of the machine for protecting the pitman head f, as specified.