one end to finger pieces and at the other end to sets of springs or weights: 2nd. The combination of the tension compensating levers b, b, the straps b; b and the springs b; b; 3rd. The jointed fingers C4 C5, in combination with the sliding pieces C5 C4 and the lasting girth; 4th. In a lasting machine for girth lasting, the combination of the rigid adjustable fingers C5 C5 having a rising and closing motion and the girth. 5th. In combination with an elastic heel pad R, the reciprocating folding plates, the spring rods Rt R, and the arm R4, 6th. A spring too stretching and smoothing 1 at N having a vertical motion, and also adapted to move against the upper over upon the sole, 7th. For the lasting devices for folding the upper over upon the sole, 7th. For the lasting devices the combination of winklessreping fingers P P with oscillating, turning and smoothing finger plates J moving in unison therewith *8th. The right and left screw *, in combination with blocks K4 and K7 to bring the shoe, vithout regard to its size, into the proper position with reference to the girth, 9th. The automatically acting one support M, consisting of a post Mt resting upon a cam or wedge, the cam or wedge being actuated at the commencement of the upward rise of the girth carrying cross-head; 10th. The combination of the cam C, adjusting serve Cn, lever C1 and C* actuating the girth carrying cross-head, 10th. The combination of the cam C, adjusting toe clamp H arranged to operate between such plates acting alternately, 12th. The combination with the oscillating toe lasting plates, of a reciprocating toe clamp H arranged to operate between such plates acting alternately, 12th. The automatically removable toe clamp forning an abutment for the toe of the boot or shoe, to rest against when adjusted in place, and also serving as a clamp to prevent the boot or shoe from rising when acted upon by the girth; 14th. In combination with the casting the heel or toe provided with fingers controlling the position of the winkles or folds 16th Cecilia

No. 7892. Improvement on Hinges.

(Perfectionnement des pentures.)

John Beaudet, Cambrilge, Mass., U.S., 12th September, 1877, for 5 years.

Claim.—1st. The combination of the two hunge screws A As with the pivotal screw or pintle Br, inserted into the head of one and screwel into hat of the other of such hinge screws , 2nd. In combination with the door Di that of the other of such image screws, and, to combination with the door prand is frame E and the two lower hinge screws A A A macried therein and stranged and provided with the pivot or pintle B and flange b, the two upper hinge-screws A At, and their headed protail screw or pintle B inserted through the upper of such hinge screws, and screwed into that next below it, such upper pair of hinge-screws being screwed into the door and

No. 7893. Machine for Gathering Potato Bugs.

(Machine a recueillir les chrysomèles a patates.)

Joseph Labelle, Sault-aux-Récollets, Que., 19th September, 1877, for 5 years

Resumé—10 La combinaison de l'essieu h supporté par les potenux p_i and de mettre en mouvement, par l'emploi des courrois g_i la moissonneuse à chrysonolle; 20. La combinaison d'un brancard mobile b supportant res deux rans f, au moyen desquels on bat les tiges des patates pour en dégager les chrysomèles, 30. L'emploi d'un auge c suspendu au brancard inférieur b au moyen des chaînes d pour recueillir les chrysomèles.

No. 7894. Improvements on Taps and Dies.

(Perfectionnements aux turauds et aux filières.)

James Flower, Detroit, Mich., U.S., 12th September, 1877, for 5 years. Claim —The combination of removable chaser-cutters C the radially slotted chuck head A to receive said cutters, and the flanged collar B and set screws a to secure them in their relative positions

No. 7895. Rock Drilling Machine.

(Machine à forer le roc.)

Franklin Keenan, Brownville, N. Y., U.S., 12th September, 1877, for 5 years.

-1st. The arrangement of the cable C and drop rope E c mn-Claim.—1st. The arrangement of the cable C and drop rope E r nm at the former winding on reel D and the latter passing over pulley a and inpining frame F, and winding on reel G; 2nd. The combination with the tripper frame F, of reels D and G for operating the cable C and drop E; 3nd. The combination of the clutch and lever V, chain T and wheel S, with the reel D for winding the cable C; 4th. The arm W having a reversible rubber 2 mper X, in combination with a shoe or saucer Y on the tripping frame E, 5th. The mast B, trunnioned to the frame A and held in a step b.

No. 7896. Mode of Putting up Baked Beans.

(Mode d'apprêter les fêces crites.)

Edwin W. Brown (Assignce of W K. Lewis), Boston, Mass., U.S., 12th September, 1877, for 5 years.

Claim.—1st. The process of putting up beans for the market, by par-boiling the same, hermetically sealing them in cans, and baking by steam heat, while thus hermetically sealed, 2nd. Baked beans and pork put up in bermetically sealed cans.

No. 7897. Improvements on Bed Bottoms.

(Perfectionnements aux fonds de lits.)

Jadson Bostwick, Buffalo, N. Y., U. S., 12th September, 1877, for 5 years.

Claim.—1st. The combination with groove d, the frame C basket work bb strap c and springs aa, 2nd. Forming in the wooden frame C, the groove d.

No. 7898. Portable Water Power Apparatus.

(Motour hydroulogue portatif.)

Marcus L. King, Oblong, Ill., U.S. 12th September 1877 for 5 years,

Claim.—The channel B inclined plane A and top cover (in combination with the water wheels E E, with axies g and go chain M, and cog wheels L and a

No. 7899. Chuck for Holding Pipe Fittings.

(Mandein pair saisir les manchems de tanaux.)

James Plower Detroit, Mich. U.S., 12th September, 4847 for 5 years.

Claim.—18t. The combination with the chuck frame A chuck heads B C and right and left hand seriew D, of the revolving heads E F and the spring holt b 2nd. In combination with the heads of a chuck, the revolving heads E F and spring bolt b.

No. 7900. Railway Journal Box.

(Borte d'essien de railroute.)

Williatz P. Wilcox and Lorenzo A. Kelsey, Cleveland, Ohio, U. S., 12h September 1877, for 5 years.

Claim-ist. The collar 1 rollers 1 2 3 and arranged in relation to and Cann—1st. The collar Trollers I 2 3 and arranged in relation to and in combination with the grooved rollers 5, 6 7 and 8 2nd In combination with grooved and collared rollers, the grooved axie II and grooved journal box consisting of sections B and C 3rd. The combination of the grooved and collared rollers, radially softed rings g coved axie journal II and grooved journal hox. 4th Journa, boxes slotted segmental sections more or less in number, lating posted therein and friction rollers arranged in relation to each other. 3th In combination with the axie box and car sit A, the bar M, boits K, braces I and springs.

No. 7901. Manufacture of Paper Bags.

(Febrication des sacs en papar.)

James C, Wilson, Montreal, Que., (Assignee of L. D. Benner), 12th September, 1877, (Extension of Patent No. 1944), for 5 years.

No. 7902. Process of Seasoning and Preserving Wood.

(Procede de séchage et de conservation du bois.)

Louis S. Robbins, N. Y. U. S. 12th September 1877, for 5 years,

Claim—1st The air pump C in combination with the air heating pipe or tube B surrounded by a suitable furnice D and the wood-chainter A with or without a steam heating arrangement, 2nd in combination with the apparatus the process of cirring wood by heating the same, increasing under an atmospheric or gaseous pressure.

No. 7903. Improvement on a Waggon Box.

(Perfectionnement d'une causse de conture.)

Edwin R. Langs, Langford, Ont., 13th September, 1877, (Extension of Patent No. 7719), for 5 years.

No. 7904. Improvements in Moccassins.

(Perfectionnements dans les mocassins.)

George Boulter Montreal Que , 13th September, 1877, for 5 years.

Claim -The combination with a moccassin, the rings or loops D, rings E and rings F, through which the lace passes.

No. 7905. Improvements in Reaping Machi-

nes. (Perfectionnements aux moissonneuses.)

John Abell, Woodbridge, Ont., 13th September, 1877, for 5 years.

Claim -1st The segmental guide block A arranged in connection with a Claim—Ist The segmental guide block A arranged in connection with a rake head of a reaping machine, for the purpose of guiding and supporting the rakes during a portion of their revolution. 2nd. The pivoted switch B in combination with the guide block A and pivoted tilting and locking lever H; 3rd. The guide block A with upwardly projecting tilting shoulder Ai, in combination with ulting and locking lever H and connections; 4th. The rake bracket E with pivoted tilting and locking lever H, in combination with the rake arm D, with lug Di, 5th. The rake bracket E mounted on the pin F of the rake arm D, in such manner that by means of the lugs of diand Di, or their equivalent, a limited turning only of the rakes on the pin F as an axis is permitted, ensuring a positive degree of revolution (say one quarter) 6th. The rakes of a reaping machine.

No. 7906. Improvement in Pessaries.

(Perfectionalment dans les pessaires.)

Charles N. Fowler Youngstown, Ohio, U. S., 13th September, 1877, for 15 years.

Claim.—The modification of the fodge pessary, the pessary being filled out and rounded to conform to the parts, broader at the posterior portion than at the interior portion, and having a swell at the posterior part.

No. 7907. Improvements in Sofas.

(Perfectionnements dans les sofas.)

James H. Corrin, Bruce Mines. Ont., 13th September 1877 for 5 years

Claim.—A combined sofa and bed consisting of the hinged seat Ar with box enclosure underneath, hinged back D, false sliding back C, with raised ends C C and heads A2, provided with the detachable slides E E.

No. 7908. Machine for Making Match Splints.

(Machine à fendre le bois d'allumettes.)

Henry Wright, Damariscotta, Me., U.S., 13th September, 1877, for 5 years.

Claim—1st. The frame A a forming ways for the shiding head B the sliding head B with its cutters F and F'i, the feeding bar D and the cutter head G with its slitting knives g: 2nd. The feeding bar D arranged to slide laterally in its