No. 4072. EDWIN BEARD, Chicago, Ill., U.S., 19th November, 1874, for 15 years: "Machine for Nailing Boxes." (Machine à clouer les Box." (Boite à plantes.) boites.) •

Claim.—1st. Two simultaneously operating machines arranged as described with relation to each other, for the purpose of operating together along the ends or sides of the parts of the same box, one of the said machines being adjustable with relation to the other, for the purpose of thereby nailing together boxes of different sizes; 2nd. Two simultaneously operating machines connected to each other by means of the rods of bars M, M, adjustably attached to one of the machines and operating a connection with cams in the other as described for the purpose of thereby rendering the machines adjustable with relation to each other, and tightening the grip of the machines upon the parts of the box during the operation of malling; 3rd. Two or more box supporting tables Perizontally adjustable with relation to each other as specified; 4th. Dies or mail-holders and corresponding punches or drivers arranged as described with relation to one or more edges of the box, one or more of the said dies and punches being horizontally adjustable in a line at, or nearly at, right angles to the line or lines occupied by other like parts, as specified: 5th. The combination of the table 0, rick L. pinion J. vertically adjustable pin T. and the gate 0, rick L. pinion J. vertically adjustable pin T. and the gate 0, rick L. pinion J. vertically adjustable pin T. and the gate 1, resting freely in the horizontal grooves in the frame, clips Li. Li., thes Din. Din. bars A., and An, resting freely in the horizontal ways in the gate P, and pins K., Ki, as specified; 7th. The combination of the scrows Fi. Fin., whoels (i. q., horizontally sliding clip supports Ei, Ei., clips Li., Li., and specified; 5th. The combination of bars An, An, gate P, dies or nail holders Din, Din, supports Ei, Fin. clips Li., Li., and specified; 7th. The combination of the said server during the upward movement of the gate as specified; 10th. The elips provided with new or more punches, in combination or more dies or nail holders rigidly attached therete and arranged to r

No. 4073. ROBERT M. EVANS, Buffalo, N. Y., U. S., 19th November, 1874, for 5 years: "Number Printer." (Mode d'impression des nombres.)

('aim.-In combination with the type-wheels of a consecutive numbering apparatus, the pivoted lever L. lever J, with its lugs M, spring O, puwl H, and ratchet wheel J, all constructed and operating as described.

No. 4074. John F. Collins, and John W. Cum-MING, Montreal, Que., 19th November, 1874, for 5 years: "Process of Separating Animal from Vegetable Matters." (Procédé de séparation des substances animales des végétales)

Claim—1st. The application of diluted sulphuric acid. chloride of sodium, and biborate of soda for the purposes specified; 2nd. The process of excessive heating of the solution and stock in combination with pulverized charcoal and guano; 3rd. The restoration of the animal matter to its natural texture by the use of biborate of soda and alum, in the manner described.

No. 4075. EUGENE T. DUCHARME, Montreal, Que., 19th November, 1874, for 5 years: "Automatic Oil Can." (Bidon automatique à l'huile.)

Claim.—The combination of the body A, spout C, and inner tube D, all working together as described.

No. 4076. FREDERICK PROUDFOOT, Toronto, Ont., 19th November, 1874, for 5 years: "Stove-Pipe Drum." (Poele sourd.)

Claim.—The stove-pipe drum A bearing a close bottomed inter-nal air and water chamber B, suspended by side contact therewith and perforated to allow a through circulation of external air 2nd. A store pipe drum A, having a close bottomed internal air and water chamber B, in contact at opposite sides both having corres-sponding perforations D, or openings, 3rd. A stove pipe drum A having a close bottomed internal air and water chamber B, in con-tact with one side and provided with perforations at top or at top and sides as set forth. and sides as set forth.

Claim.—The oblong plant box A, with sides and ends splayed from the bottom outward, constructed of wood vencer, and consisting of the pieces A and A, bonds B and B, and angle pieces C, arranged as described.

No. 4078. SILAS P. LITTLEFIELD, Lynn, Mass., U. S., 20th November, 1874, for 5 years: "Rail-way Carriage Way Meter." (Compteur de voiture de railroute.)

Claim.—The combination of the movemble seat A, the register E, and one of the wheel axles  $p_t$ , with the clutch k, l, the mechanism for operating the clutch as described by means of the seat (viz. the spring e, the shaft l, and its arms g, h) and with the mechanism for revolving the clutch shaft m, by the said axle, which ever way the latter may be in revolution, this latter mechanism consisting of the gears n, a, shaft n, worm gear q, worm r, shaft p, with the said products p, p, coffar p, p, serve p, p, serve p, shaft p,

No. 4079. ELIJAH LEONARD, London, Ont., 20th November, 1874, for 5 years: "Still and Process of Distilling Petroleum and other Fluids. (Alambic et procédé de distillation du pétrole èt autres fluides.)

Claim.—Ist. The use of flues or tubes 2, in an oil still when the heat from the furnace passes directly through them; 2nd. Passing the condensing pipes a a a a through a tank or still H containing crude oil; 3rd. The use of one or more stills in combination with the refining still B, for the purpose of separating the benzine and more volatile elements than refined oil and all foreign matter from the crude oil before it passes into the refining still; 4th. Operating two or more stills by the heat from the same furnace; 5th. Heating the furnace of an oil still by means of a tar burner drawing its supply of tar directly from the still; 6th. The combination of the tank benzine still and refining still when arranged to operate in the constant and regular manner set forth.

No. 4080. George S. Bruce, Cincinnati, Ohio, U. S., 20th November 1874, for 5 years: "Coal Box." (Boîte à charbon.)

Claim.—A coal box A, provided with the lump coal chamber E, having outlet D, and slack magazine F, (the cover B, common to both) channel G and door H at the bottom as described.

No 4081. RICHARD T. BOOTH, Trumansburg, N. Y., U. S., 25th November, 1874, for 5 years: "Automatic Gas Light Extinguisher." (Extincteur automatique des lumières de gaz.)

Claim.—1st. The combination of the sliding bar adapted to be connected with the cock of a gas burner, and the spring I, pawl N, and index shaft O, operated by a clock train for shutting off the gas; 2nd The combination of the adjusting shaft C; leading serew S, index shaft O, and stud M, for operating pawl N, to release the slide connected with the gas cock: 3rd. The index shaft O, having stud Mi, and con wheel T, in combination with the leading serew S, pawl N, slide E, stud Mi, spring I, link II, and a train of gearing as described; 4th. In combination with the sliding bar E adapted to be connected to a gas cock, the arm A; and spring B, with the balance wheel D, in order to stop the clock work when the sliding bar is released as described.

No. 4082. Albert Eames, Bridgeport, Ct., U. S., 25th November, 1874, for 15 years: "Pattern Moulding Machine." (Machine à faire les modèles.)

Claim.—1st A carriage with segmental wheels in combination with a press-platen, and head plate, the combination being and acting as described. 2nd. In combination with a platen and head block, a carriage with segmental wheels, provided with connecting rods, or the substitute therefor, for causing all the wheels to move through the same are, the combination being as set forth; 3rd. In combination with a platen and head block, and a carriage with a hole in it, the stopper and its attached plate; the combination being such as described. 4th. In combination with a carriage