manufacturing or producing an equature solution of gum copal by bosing gum or pai in soft water and adding thereto sub or caucito sods or other alkaline substance as set forth.

No. 3634. John J. Lappin, Toronto, Ont., 16th July, 1874, for 5 years: "Self-acting Carcoupler." (Attelage de wagon automatique.)

Claim.—lst. The enlargement of the crown of the draw-head A, and hinging inside of the same the mech-nism comprising pendulus automatic trip B, as described; 2. 3. 4. of the drawings; 3rd. The automa is trip B. as shown in figures 1, 2, 3, 4, of the drawings and the drawings of the drawings and comprising the vertical arm a, the journals b, b, the arms or counter-weights D, D, as specified.

No 3335. Samuel Vivian, London, Ont (Assignee of C. Luxton,) 16th July, 1874, for 5 years: "Peat Machine." (Machine à tourbe.)

Chim.—Ist. The combination of shaft B, knives D, fingers F, spiral wing P, spiral wing k, and stone reo iver Q; 2nd The combination with litering and compressing tubes T, piston K, discharging north S, and directarging tube V: 3rd. The combination of the perforated from tubes, as shown in deta higher 4, 1 entersted from tubes, as shown in deta higher 4, 1 entersted from tube C, middle covering b, and outside covering a.

No. 3636. ALEXANDER WALKER, Mornington, Ont., 16th July, 1874, for 5 years: "Broad Cast Seed Sower." (Semoir à grain à la volée.)

Claim—lst. The cylin fer A, attachable to the arm of the opera or by a strap and provided with a handle U, to be seized by the ingers of the operator when seeding in the manner set torth; 2nd, the cylinder A, having a perforated cap D, and wire gauge cone E, 3rd, the discest, privated cothe cap D, and held adjustably by the clamp G, and screws H, as set forth.

No. 3637. ISAAC M. HOUSE, Orillia, Ont., 16th July, 1874, for 5 years: "Shingle Machine." (Machine à bardeaux.)

Clum—lst The vertical frame A, having diagonal race-ways C, for guiding the knife traine D, And. The horizontal race tar it, attached to the obliquely cluding gate B, in combination with the vertical sliding panel G, for actuating the lathe in the manner set forch.

No. 3638. Horace Thorne, Toronto, Ont., 16th July, 1874, (Assignee of F. Oakley, Extension of Patent No. 8,) for 5 years: "Lock Washer." (Rondelle de sûreté.)

Plaim — The addition to an ordinary washer of the inside lug or projection A, in Fig. 2, or a similar device as in Fig. 3, for nuclering the washer from turning, the , said washer being thicker than the thread of the screw, with the projecting points or tails B, B, B, in combination with a grooved or flattened screw shown in Fig. A, and an ordinary vent.

No. 3639. James Lott, Liverpool, Eng., 16th July, 1874, for 5 years: "Apparatus for Trimming the Edges of Straps." (Appareil à parer les lisières des courroies.)

Claim.—lst. The novel combination of the pron frame a, and the moveable paws b, and the pin or bace, the screed, cutterf, and the handle g, together forming an apparatus for trimming the edges of straps, bands, traces and other similar articles; 2nd. The particular construction of the sawe b, and their mode of adjustment in both directions; 3rd. The particular construction of the cutters k, when applied to apparatus constructed as set forth and the mode of holding and fixing same.

No. 3640. James Cr. Scott, St. Thomas, Que., 16th July, 1874, for 5 years: "Brake for Railway and other Carriages." (Train de voiture de railroute et autres.)

l'aim.—Ist. A brake composed of shaft a, a, provided with screw threads b, b, working into boxes c, c, in combination with arms d, d, and cross-pieces c, c, acting on friction rollers f, f, said shaft being provided with coupling apparatus m, to connect together several lengths thereof, as described; 2nd. The combination with the shaft a, a, the bins-cogged-wheel h, and rod k, provided with hand wheel m, as set forth.

No. 3641. Hosea Henika, Meyron F. Carden and Oscar M. Allen, Kalamazoo, Mich., U. S., 16th July, 1874, for 5 years: "Burial Casket." (Cercueil.) Claim.—A casket provided with a top or covor made in two sections C. D. protect to the ends and upper portion of the case and adapted to be independently raised and lowered with or without supporting catches a, a, as described.

No. 3642. GEORGE F. SIMONDS and JAMES A. FERSON, Fitchburg, Mass., U. S., 16th July, 1874, for 5 years: "Process for Tempering and Form ng Articles of Steel." (Procédé pour adoucir l'acier et en fabriquer différents objets.)

Claim—1st. The process described for tempering and bringing hardened articles of steel, resteel combined with from to any required form by clamping them between plates or terms, and fresting tenta uniform temperature which is consistent with the requisite temper and keeping them at that heat for the tenta of the required for the article to take permanently the form of the clamping surface; 2nd A tempering, or tempering and forming even A, an intercening plate or perforated plate C, between the first and the clamps of dish B, for the purpose of securing an evenness of neat in the clamps, 3rd. A tempering, or a tempering and terming is an A constructed with a periorated beto a c, but the admission and even describation of heat around the articles to be freated; 4th. A tempering, or a tempering and furning even A, and the A tempering or a tempering and furning even A, and the A tempering or a tempering and furning even A, and the E, when arranged to operate as set forth.

No. 3543. Joseph E. Landers, New-Bedford, Mass., U. S., 16th July, 1874, for 5 years: "Flower 1 ot." (Pot à fleurs.)

Claim.—The pot F, with a curved top j, and projections g, and flanges h, h, in combination with pot A, with circular hole G, and opening d, d, as set forth.

No. 3644. WILLIAM DUCHEMIN, Boston, Mass., U. S., 16th July, 1874, for 5 years: "Improvement on Turned Shoes." (Perfectionnement des souliers retournés.)

Claim—lst. A turned snoe, having its sole channelled on the lower or grained sude, the over lapping surface of its hip being directed towards the centre of the sole; And. The mode of sowing turned shoes connecting in uniting the sade upper, and well-togother, by attaches passing through angularly to the surface of the sule. 3rd A new article of manufacture, in a turned shoe naving its sole channelled on the tower or grained shoe acreed angularly and composed of the sole A, upper B, and well C, as specified.

No. 3645. Austin D Cable, Montreal, Que., 16th July, 1874, for 5 years: "Improvements on Faucets" (Perfectionnements aux robinets.)

Claim.— 1st. The shell a, having double valve-seat d, and valves m, and i, in combination with spindto e, and bib " h, all working together as set for h; and. The shell n, with pipe at, opening b, double valve seat d, valves i, and m, all working together as set forth.

No. 3646. JOHN PRINCE, and NORRIS D. MARTIN, North Troy, Vt., U. S., 16th July, 1874, for 5 years: "Milk Pan." (Boite à lait.)

Claim.—Subdividing the water chamber. formed by the double bettom, by transverse partitions L, having connecting apertures diagonally opposite, to cause a sorpentine direction of flow and to admit of hydraulic pressure to be exerted within the chambers, as set forth.

No. 3647. CHARLES ROBINSON, Cambridge, Mass., U. S., 16th July, 1874, for 5 years: "Combined Washer and Wringer." (Laveuse-tordeuse combinées.)

Claim.—lat. The novel combination of the large fluted inelastic roller A. the small inelastic roller C, and the large elastic roller D, arranged in the stan ards r, c, of the frame of the machine, thereby producing a convertible washing and wringing machine; 2nd. The combination of a small inelastic roller C, with a large inelastic fluted roller A, for washing clothes; 3rd. The combination of a small inelastic roller D; with a large elastic roller D; 4th. The combination of the elastic loops or cords b, b, with the small roller C; 5th. The combination of the pressure levers G. G, with the small roller C, and large roller D, 6th. The combination of the adjusting notches or rat bet teeth g, g, with the pressure levers G, G,

No. 3648. RICHARD M. WANZER, (Assignee of J. H. McCune, Hamilton, Ont.,) 16th July, 1874, for 5 years: "Improvement in Sewing Machines." (Perfectionnement des machines à coudre.)