No. 3473. SILAS S. PUTNAM, Boston. Mass., U. S., 28th May, 1874, for 5 years: "Machine for Making Wrought Nails." (Machine à faire le clou forgé.)

Claim—lst. The combination of the hammers with a mechanism for varying the number of their blows as described; 2nd. The combination of the hammers with the arm n, and a mechanism for moving the same laterally at the required time as set forth; 3rd The hammers operated by the sam wheel E. in combination with a mechanism for outting off the finished natl as described; 4th. The conhiration of the hammers with the arm n, and mechanism for operating the same and a mechanism for varying the number of blows of the said hammers as described; 5th. The adjustable outter lever I, with its outter I., in combination with the cutterlever I, with its outter I., in combination with the number of their blows, the arm n, and mechanism for varying the number of their blows, the arm n, and mechanism for operating the same and the outters as described; 7th. The hammers when constructed with projections extending in front of and beyord the plates I, in the manner set forth.

No. 3474. THOMAS FOLEY, Brantford, Ont., 28th May, 1874, for 5 years: "Apparatus and Process for Manufacturing Extract for Tanning and other purposes from Hemlock, Oak and Substances Containing Tannin." (Appareil et procédé de fabrication pour le tanuage et autres fins, de l'extrait d'écorce de pruche, chène et autre, et des substances contenant du tannin.)

Claim.—lst. The manufacture of extract for tanning and other purposes, the process of evaporating the coze or liquor obtained from hemlock, cak, or other bark, or substances containing tannin by steam heat without the sid of a vecuum or vacuum pumps in the manner set forth; 2nd In combination with the cylindrical evaporating vessel A, and its internal and external devices, as described, the dome B, pipe C, circular henting pipes L, and M, shaft N, arms or ngitators O, air pipe S, and funnel tubes K, arranged and operating separately or combinedly.

No. 3475. STEPHEN P. LEAKE, London, Ont. 28th May, 1874, for 5 years: "Improvements on Bedsteads." (Perfectionnements aux couchettes.)

Claim.—1st. Connecting the head and for trails B, B₁, to the posts A, by the rails B. B₁, receiving the ends of the posts, and the lower rails C, having down pins D₁ entering the posts A, laterally as set forth; 2nd. Connecting the side rails E, to the posts A, by the rails entering a mor ise in the posts and receiving the dowel pins D, laterally as set forth; 3rd. The diagonal brace stat G applied as set forth; 4th. recurring the stats 1, to the rails F, by pins H, as set forth, or by notches as described.

No. 3476. EDWARD P. MORONG, Boston, Mass., U. S., 28th May, 1874, for 5 years: "Method of Laying and Preserving Wood Pavements." (Art de poser et préserver le pavage en bois.

Claim.—The laying of wood pavement, the treatment of the wood with antiseptics applied to the sand form on which the ends of the blocks rest in the manner described.

No. 3177. EDWARD MYERS, New York, U. S., 28th May, 1874, for 15 years: "Improvements on Rotary Pumps." (Perfectionnements aux pompes rotatives.)

Claim.—An improved rotary pump formed by the combination with each other of the cylinder A, provided with norts E, and having circular cavities B, formed in its heads concentric with respect to pach other, eccentric with respect to the heads of the cylinder, and tangent to the inner surface of the cylinder between its ports, the hollow cylinder or drum F, the sloried cylinder or bearing C, the piston H, whether made with or without a flange or fluke and the shaft B, as described.

No. 3478. MATTHEW WAINMAN, South Orillia, Ont., 28th May, 1874, for 5 years: "Churning Machine." (Machine à baratter.)

Claim —A churning maching having a lever beam G oscillating for the working of churn dashers by means of a pitman F. connected to a crank disc D. driven by the pinion B, by application of belt C, C, working over drive wheel A, said drive wheel being driven by hand power by using cranks H. H. by which means two persons can be employed in operating the machine if needed.

No. 3479. JOHN W. ELLIOT, Toronto, Ont., 28th May, 1874, for 5 years: "Improvements in Heating Stoves" (Perfectionnements aux poèles de chauffage.)

Claim.—1st. A four way draught passage F., with a valve G, and radiating pipe F, in combination with a stove A, Ar, Ar, Ar, 3; 2nd. The mice B, having a knob Br. rivoted thereon in combination with the vertical risks b, and they contain risks b. 3rd. The combination of the base A. ash pan chamber E, grate D, fire pot A., doing or top A., coal reservoir or feeder As, cast and fitted together as specified.

No 3480. Joseph Taylor, Hamilton, Ont., 28th May, 1874, for 5 years: "Improvements on Railway Freight Cars." (Perfectionnements aux wagons à fret de railroutes.)

Claim.—1st. A box freight car for railways, having door B, arranged at the sties of the carnear either end and opposite to each other. 2nd A box freight air. constructed of a frame work composed of the stil pieces A, vortical posts B, string pieces C, diagonal b aces D, tension rods F, and transverse beams G, arranged and combined as described and a door way at each side near the end of the car as set forth.

No. 3491. JOHN A. MOFFAT, Dundas, Ont., 28th May, 1874, for 5 years: "Machine for Stoning Cherries." (Machine à vider les cerises.)

C'aim.—A frame A, honper B, spring F, punches I. I. strippers J, J, guards K. K. rubber plates M. M. metal plates N. N. and fastening screw C, D. plate L, handle H, all arranged as specified.

No. 3482. WARREN T. KELLOGG, Troy, N. Y., U. S., 28th May, 1874, for 5 years. Improvements on Portable Forges." (Perfectionnoments aux forges portatives.)

Claim.—lst. The shaft E', and pulleys E:, and F, in combination with sliding boxes E', and spring I: 2nd. The combination of the fun A. friction pulleys or gears E', E, F, and G, with rod H, and lever a, as set forth.

No 3483. WILLIAM QUI. 1, Mayfield, Cal., U. S., 29th May, 1874, for 5 years: "Tripartite Tie Link for Chains." (Ménille de chaîne tripartite.)

Claim.—Ist. The U shaped rods A, B, having the extremities of one arm linked or broked together, while the extremities of the opposite arm are arranged to buckle or interlock together as described; 2nd. The U shaped rods A, B, and permanent connecting linc d, when the long-arms of said rods A. B. are provided with interlocking devices, and hent inwards towards link d, as described; 3rd. A flexible chain or link connector consisting of three parts A, B. d. when so constructed as to form a link of the chain which it connects as described.

No. 3484. John Bennett, Belleville, Ont., 23th May, 1874, for 5 years: "Fanning Mill and Separator." (Tarrare-Séparateur.)

Claim.—lst. An adjustable screen capable of being worked at different angles without a grace in the stop of a faming mill or separator as set forth; 2nd. The combination of the pivot irons A, A, cams D, D, and ratchet iron G, as specified.

No 3485. WILLIAM W. ALLMAND, East Boston Mass., U. S., 28th May, 1874, for 5 years: "Valve Re-Fitting Machine." (Machine à réparer les soupapes.)

Claim.—lst. The bearing strips ci, fitted into the conical recess Ci, of the head C, and arranged within the same at points equidistant from each other and from the cutter D, as specified; 2nd The frame A, head C, and Ci, tail stock II, centres Gi, and II, bar K, provided with the square end k, and the ratchet I. i, and li, when constructed and combined to operate as set forth; 3rd. The improved machine described as a while when its mereral parts are constructed and combined to operate as described.