No. 6411. Improvements on Wood Screws.

(Perfectionnements aux vis à bois.)

Charles D. Rogers, Providence, R. I., U. S., 5th August, 1876, for 15 years.

Claim.—A pointed wood screw having the outer periphery of the thread upon its body cylindrical, while a portion of the body below the thread and near the neck is conical, the remainder of the body to the point being cylindrical and jet having all the threads brought to an edge of a constant angle without jogs in the paths between the threads.

No. 6412. Soap Boiling Apparatus,

(Appareil à cuir le savon.)

Archibald O. Glass, Dotroit, Mich., U. S., (Assignee of Milton J. Palmer) 5th August, 1876, for 5 years.

Claim.—The combination of a horizontal boiler A, mixing chamber B, tube b, inlet E and agitator H provided with concave floats h and slats i set diagonally across.

No. 6413. Improvements in Weaving Temples.

(Perfectionnements aux tempes de tesserands.)

James B. Paton, Sherbrooke, Que., 5th August, 1876 for 5 years.

Claim,—1st. The box and cap a; 2nd. The projections or lugs c; 3rd, the swaged teeth on the roller u. 4th. The spring shaft b. 5th. The support guides c

No. 6414. Waggon Seat Lock.

(Arrête-siège de voiture.)

Joseph Hill, Wabash, Ind., U. S., 5th August, 1876, for 5 years.

Claim-The box C having recess D, coiled spring F and catch plate E H, the latter pivoted in box C, so as to form a close fitting cover for the recess or aperture wherein it works, in combination with the sent iron A having bevelled point d, notch b and shoulder c.

No. 6415. Improvements on Mowers and

Reapers. (Perfectionnements aux faucheuses-moissonneuses)

Louis H. Hébert, Grande Ligne, Que., 5th August, 1876, for 5 years.

Résumé.-10. La combinaison du levier M, de la canne à dents de rochet Resume.—16. La combination du levier M, de la came a dents de rochet N, de la chaine O, du bras P ay ant un ressort R, avec la roue S p ur soutever ou baisser la table A d'une faucheuse-moissonneuse; 20. La combinaison du poteau mobile D, portant le dévidoir E, avec le poteau fixe C boulonné au devant de la table A, 30. La combinaison du poteau fixe C de la branche latérale F, du levier H, de la poignée I, de la tige J avec le poteau mobile D, la poulie L, La chaîne K et le levier M pour soulever on baisser le Afendais E. dévidoir E.

Claim—1st The combination of lever M, ratchet toothed rod N, chain O, arm P having a spring R with the wheel S to raise or lower the table A of a mower and reaper—2nd The combination of the movable post D, carrying the reel E with the fixed post C bolted in front of the table A—3rd The combination of the fixed post C, side arm F, lever H, handle I, rod J with the movable post D, block L, chain K and lever M to raise or lower the reel E

No. 6416. Improvements in Weather Strips.

(Perfectionnements aux bourrelets de portes.)

Joshua Johnston, Toronto, Ont., 7th August, 1876, (Extension of Patent No. 1095), for 5 years.

Claim.—1st. The construction and application of the weather strips Figs. 15), 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27 and 29; 2nd. The application of the weather strip Fig. 28.

Improvements on Centrifugal No. 6417. Pumps. (Perfectionnements aux pompes centrifuges.)

William D. Andrews, Brook Haven, N. Y., U. S., 11th August, 1876, for 5

years.

Claim.-1st. A centrifugal pump having a cylindrical case A. charge branch or nozzle D of an enlarged rectangular construction at its junction with the case and coincident with the sides thereof, but terminating externally in a contracted orifice b and arranged so that the interior surface s of its outer side is in tangential relation with the amor periphery of the case and with the circular path by the outer ends of the propelling wheel or its wings, 2nd. The discharge branch or nozzle D having the interior surface s wings, 2nd 'The discharge branch or nozzle D having the interior surfaces of its outer side in tangential relation with the cylindrical case. A, and constructed or provided with a relief opening s having a curved surfaces a armaged to connect with the inner periphery of the case and with the tangential surface s of the discharge branch or nozzle D. 3rd. The wings N of the propelling wheel constructed of reverse curve constituting a volute for the greater portion of the length of the wings but having outer radial terminations; 4th. The combination of the wings N N, irrespective of their shape having their inner edges terminating at distance from the centre of the wheel so as to provide an unobstructed central space within them with a bub N on one side only of the wheel of a diameter annovaximating to that of said censo as to provide an anobstructed central space within them with a hab Ni on one side only of the wheel of a diameter approximating to that of said central space and with re enforces O O, the said hub and re-enforces extending equally into the cylinder; 5th. The removal head B of the pump case provided an arbor G for the wheel shaft, and constructed to independently carry the propelling wheel shaft and driving pulley; 6th. The combination of the pulley H arranged on the arbor G, projecting from the removable head with the shaft I and the coupling J; 7th. The combination with the removable head B constructed to independently carry the driving pulley and wheel shaft, having an attached clutch of the pump

ase A and its attached head C, induction nozzle M and discharge branch D ; 8th. The circularly adjustable case A formed with circular extensions on the opposite sides or faces to form broad or distant bearings in the support of the case by the stand I; beyond opposite side of the discharge pipe D.

No. 6418. Combined Hame and Horse Collar.

(Attelles et collier de cheval combinés.)

Ezra Strond, Riceford, Min., U. S., 11th August, 1876, for 5 years.

Claim.—The hames A having holes o, the bow rods 51 M having a series of holes N in their end portions and supporting the neck pad D.

No. 6419. Screw Machine. (Machine à vis.)

Charles D. Rogers, Providence, R. L. U. S., 11th August, 1876, for 15 years.

Claim.—1st. The cams Y and Mt, combined with the ordinary mechanism for operating the chaser, for the purpose of accelerating, retarding and limiting the sidewise cuts of the classer over the cone and cylindrical body of the seriow proportionately to the depth of the cut of the classer towards the axis of the seriow so as to bring the threads to an edge of a uniform angle over those parts without changing the outer periphery of the seriew.

No. 6420. Portable Engine. (Machine portation.)

Martin W. Shapley, Binghampton, N. Y., U. S., 11th August, 1876, for 5

Claim .- 1st. The combination of the boiler and the conical fire-box with the cross and upright tubes, and lacket and chamber, 2nd. The combination of the boiler composed of parts a m and the cross and apright tubes opening into the chamber k with the removable Jacket, whereby the tubes may be quickly and easily cleaned by removing the Jacket; 3rd. A portable engine and boiler provided with a conical fire-box and tubes j n, and Jacket and heater b and pump c, all arranged on a base d.

No. 6421. Improvements on Stoves.

(Perfectionnements aux poeles.)

James R. Armstrong, Toronto, Ont., 11th August, 1876, for 5 years.

Claim.—The plate A, divided into two sections A) and A2, pivoted to the apron or earth plate in such manner that either section separately may be opened without disturbing the other or both may be opened simultaneously

No. 6422. Improvements on Switch Rails.

(Perfectionnements aux rails mobiles.)

Joseph Haggas, Uxbridge Ont., 11th August, 1876, for 5 years Claim .- The tubes E, in combination with the rods B B and rails A.

No. 6423. Improvements on Stoves.

(Perfectionnements aux poëles)

William Doyle, Albany, N. Y., U. S., 11th August, 1876, for 5 years

Claim.—1st. A heating stove having an oven at its r-ar, and the base fines b b and c, bottom horizontal flue with dampers c between it and the said base flues and an ascending flue botween the oven and the stove proper. 2nd The combination with the ascending flue f of the blast flue b leading from the combination chamber to the horizontal flue or chamber g and through said ascending flue whereby the hot gases passing through the said blast flue may ascending the whereby the not gases passing through the said bhast the may reheat the gases of reduced temperature in the said ascending thus and stimulate the draft of the same, 3rd. The combination with the stove proper of the blast flue h, horizontal flue or chamber g, direct return flues m and ascending the f; 4th. The combination with the blast flues h and h, one or more return flues m m and horizontal top flue g of the rings carrying damper plates S1 £2.

No. 6424. Combined Portmanteau and Shawl Straps.

(Portemanteau avec courroies pour ceinturer les châles).

Diana S. Mathews, Adrian, Mich., U. S., 11th August, 1876, for 5 years

Claim .- 1st. The combination of a portemanteau, satchel, case or other receptacle, with two or more shawl straps applied to the bottom of the sine. 2nd. The combination of the portemanteau, or other receptacle of soft leather. with detachable showl straps and with shorter additional straps buckled to the bottom to admit the secure strapping on any article whether the ponemanteau is in filled or empty state,

No. 6425. Ironing Machine. (Machine a repusser.)

James Martin, Goliad, Texas, U. S., 15th August, 1876, for 5 years.

Claim .- 1st. The combination of a smoothing iron (without regard to the cam.—18.1. The committee of a kindoming from (who the regard to the form of such smoothing from) and a rotary and aquistable froming feet, And. A rotary ironing bed applied to a frame, which is adjustable horizontally back and forth under a smoothing iron; 3rd, The combination of a swinging frame adapted to be worked by a foot trendle and carrying a rotary froming bed, provided with a hand crank for turning it, a standard for supporting said frame and its aroung bed and a portable bracket, carrying a smoothing around. The rotary ironing bed having its outer cloth covering on surface test ened by expanding out ring; 5th. The adjustable clamp for holding the rotary ironing bed in its place, in comb nation with the half bearings for the shaft of the froming bed and an froming bed,

No. 6426. Improvements on Plough Harness.

(Perfectionnements aux harnais de charenes.)

Edwin Coleman, Castleton, Out. (Assignce of Ambrose B. Coleman) 12th August, 1876, for 5 years.

Claim.—The combination of the draw lever A, the four lugs BBB B and the circular stretch bars CC.