with the latch 54, in combination with the stud O, and disk F; 22nd. The fan G, having two free ends 42, in combination with the disks F, F1, and cam 39; 22nd. The plate 38, provided with the studs 43, in combination with the stud 44, and cam 39 for changing the ends of the fin G 24th. The shaling plate 55, provided with the stud 44, and cam E; 25th. The pray pin 36, in combination with the stud 44, and cam E; 25th. The pate 55, provided with the stud 44, and bracket LB. 26th. The pate 55, provided with the stud 44, and cam E, in combination with the plate 55, and studs 43, 27th. The plate 75, provided with the dog 54, 28th. The cam E, having the rounded ends 127, for assisting in revolving the plate 38, on its ans; 29th. In combination with the plate 75, the rod 34, and lever 9; 33th. The bar 91, provided with the groove V, and feather W, in combination with the carrier T. 31st. The feather W, provided with the cross-bar 28; 29th. The cross-bar 28; provided with the studs 22, and 28t; 34th. The sliding bar 24, provided with the bracket r ane rod t, in combination with the lever 25, 35th. The largest to the bar 1; 36th. The bar 1, gauges L, La, and arranged in respect to the bar 1; 36th. The bar 1, gauges L, La, and arranged in respect to the bar 1; 36th. The gauge 14, provided with the projection 33, in combination with the dog 51, of the plate 5; 38th. The gauge 14, provided with the screw 3, in combination with the spring 4, and counter bord hab 9; 41st. The pointer t, in combination with the wheel h, and screw 8, 42nd. The wheel k, provided with the bar and 112; 50th. The should be a spring 4, and counter to provided with the wheel k, 46th. The indicator 109, in combination with the wheel h, and screw 8 and wheel k 45th. The indicator 109, in combination with the wheel h, and spring 2, 48th. The stop lever t provided with the stud 102, 47th. The stop lever 1, provided with the stud 102, 47th. The stop lever 1, provided with the spring 53, in combination with the stud 102; 51st. In combination with the arm 1 with the Intch 54, in combination with the stud O, and disk F; 22nd. The

No. 5810. Board for Ironing Shirt Fronts.

(Planche à flasquer les devants de chemises.)

Isale Ducharme, Sherbrooke, Que., 20th March, 1876, for 5 years.

Résumé.-La forme de la planche et la manière dont elle est construite : 20 La combinaison de la planche A, avec son cadre B, le fonctionnement du cadre B, et la manière de s'en servir pour finsquer.

Claim -1st The shape of the board and the manner in which it is made, 2nd. The combination of the board A, with its frame B, the working of frame B, and the manner of using it for ironing.

No. 5811. Wringing and Mangling Machine.

(Machine à essorer et calandrer.)

Charles A. Mallory, Oshawa, Ont., 20th March, 1876, for 5 years.

Charmer A. Shandry, Osmawa, Om., 2001 Shandri, 1970, 30 years.

Platin.—The use of a pair of India Rubber springs compressed from two class B. B. in which are cut threads so us to form nuts and which class B. B. at as finchin to the two get serews C, C, which traverse them and bearing on the iron plattes Gri, Gri, press on the rubber spring D. D, which in their turn force the bearings E, E, on to the spindle F, F, and impart the required accurate the total view of the service. pressure to the top roller.

No. 5812. Stove-Pipe Fastener.

(Joint de tuyaux de poëles.)

Robert Mainer, Orillia, Ont., 20th March, 1876, for 5 years.

Claim .- The application of the metal hooks A, the slots B, and the catches C, to stove pipes

No. 5813. Horse-Shoe Nail Finishing Machine. (Machine a finir le clou a cheval.)

Charles W. Woodford, Montreal, Que., 20th March, 1876, for 5 years.

Claim .- 1st. The combination of the diese, punch and forked guide h: 2nd. Claim.—1st. The cambination of the diese, punch and forked guide h; 2nd. The combination of the diese, punch c, forked guide h and jaws t; 3nd. The combination of the spring m, ringf, extremity i, and extremity k, having recess l. 4th. The guide h, having the extremity i, in combination with the extremity k, provided with recess l; 5th. The guide h, having the extremities i, and k in combination with the spring b. 5th. The combination of the sub-frame p jaws l, and adjustable block y, 7th. The combination of the jaws l, ring x and guide h. 8th. The recess i, or its equivalent arranged to lubricate the lower rest of though [9th. The recess is a retrieval when prepared to the property of the property is the property of the property of the property of the property is the property of the property in the property of the property is the property of the property of the property is the property of the property of the property is the property of the property in the property is the property of the property in the property is the property of the property in the property is the property of the property in the property is the property of the property in the property is the property in the property in the property is the property in the property in the property is the property in the property in the property in the property is the property in the pro x and guide h. 8th. The recess i, or its equivalent arranged to Inbricate the lower part of the nail. 9th. The recess i, or its equivalent arranged to Inbricate the lower part of the nail in combination with the palk k: i. The combination of the dies at and bt, either made separately and held together or made al in one poece, rollers ai and y_i , and die n_i : 11th. The combination of the ring f, die at, bt, rollers at, atchausin for rolling and clongating blanks with the incchausin for bevelling and cloping the points. It The combination of the rolling and cloping mechanism bibricating devices ti, ki, and bevelling and clipping mechanism.

No. 5814. Self-Acting Car-Coupler.

(Attelage de wagons automatique,)

John B. Winters and Porter Williams, London, Ont., 20th March, 1876, for 5 years.

Claim.—1st. The draw-head A, having upper and lower recesses for the reception of the two links C, F, and provided with shrunk iron band T, 2nd. The combination, in a draw head, of a pair of coupling hooks or dogs D. G; 7nd. In combination with the spring and pin a, b, the moveable metal plate R; 4th. The lower lever L, upper lever N, and connecting rod Q, in combination in with the stud K, and coupling hooks D, G, as a means of operating and contribute the state. and controlling the same.

No. 5815. Upright Piano-Forte.

(Pano drod.)

Charles E. Rogers, Boston, Mass., U. S. A., 20th March, 1876, for 5 years,

Claim —1st. The string frame A, as provided with the related, notched and cushomed ledge A, 2nd. The combination of the slotted slide E its straining pan F, and operative strew to , 3rd. The combination of the slotted slide E its straining pan F, and operative strew to , 3rd. The combination of the slotted slides E, E, their straining pans F, F, and series w to the string frame B, and the lags I, f, to extend from it, or a separate bar applied to it as described, 4th. The separate bar D, provided with the hook r, and the series of lags I, all arranged as and for application to the string frame λ , and the slides E.

Clover Thrasher and Huller. No. 5816.

(Machine à battre et éculer le trèfle.)

Garat J. Utendorf, Ottawa, Ohio, U. S., 20th March, 1876, for 5 years. Claim.—The discharge trough N2, attached to the hopper M2, below the sieves by means of a triangular brace O1, and hooks P1, R2, thereby adapted te be turned in either directions.

Improvements on Steam Pumping Angines. (Perfectionnements as pompos a capital.)

William H. Law, Riverside, Pa., 1 S., 20th March, 1876, for 5 years,

William H. Law, Riversale, P.a. U. S., 20th March, 1876, for 5 years.

Claim.—1st. The combination with a pumping apparatus of the pump cylinder a, made removable. 2nd. In combination with the pumping apparatus, the stalk k, cover h, and valves and seate f, and, g, p, and g₁; 3nd. The arrangement of the vacuum chamber to within the air chamber U; 4th. The arrangement of the cylinder H. mounted upon the air chamber F. 5th. The combination of the air chamber F. c, thader H. and pilton block I, all formed in one. 6th. In combination with the cylinder over, and made in one with it, the slides K; 7th. The pumping apparatus formed in two castings, with diaphragm b, and containing upper and lower chambers c, and A, connected by valve f, pump chamber a, supply chamber B (opening by valve f, inchamber A), discharge chamber D, air chamber F, and vacuum chamber G, 8th. In combination with the pimper d, the double cross head V, Vi. operated by crank shaft U, and provided with extension V, working in guide W.

No. 5818. Improvements on Filters.

(Perfectionnements aux filtres.)

John F. Crease, Eastney, Eng., 20th March, 1876, for 5 years.

Claim.—1st. The filter composed of the vessel a, ledge b, false bottom c, ring a, rod c, handle f, metal cross f). filtering material g, perforated plate h, urper chamber i, mein b, cock l, lower chamber m pipe n, cock o, cock p, and plug s; 2nd. The modification consisting of the main vessel a, cock p, and plag s; 2nd. The modification consisting of the main vessel a, arranged within the reservoir of unfiltered water ledge b, false bottom c, rot a, handle f, metal cross fi, filtering material g. perforated plate b upper chamber i, with perforated cover and lower chamber m, with its spipion r, or pipe t. 3nd The modification consisting of the main vessel a, arranged within the reservoir of unfiltered water leggle b, false bottom c, rod r, different entering material g, perforated plate b, unfiltered water chamber i, with its perforated cover. filtered water chamber m, syphon r, ring c, packing c, and thumb screws r. 4th. The modification consisting of the main vessel a, with its projections a, narraine a^2 , house cover a^2 , ledge b, false bottom c, rod c, with jections a_i , are pipe a_i^2 , loose cover a_i^* , ledge b_i false bottom c_i , rod e_i with its projections e_i , and packing e_i^* , handle f_i , filtering material g_i , perforated plate h_i , unfiltered water chamber i_i , and filtered water chamber m_i^*

Whipping Frame Needle. No. 5819.

(Aiguille à faire le point de chaînette.)

William W. Clay, Paris, Ont., 20th March, 1876, for 5 years.

Claim .- A needle for operation in whipping frame having the shank A, spring barb B, and pointed end C.

No. 5820. Improvement in Sheet Metal Shearing Machines.

(Perfectionnement des machenes à tailler la tôle.)

Anson O Kittridge, William H. Clark & William J. Clark, Salem, Ohio, U. S., 20th March, 1876, for 5 years.

U. S., 20th March, 1876, for 5 years.

Claim.—1st. In combination with the squaring shears, the adjusting screws, At, At, miter gear Bt, gear Ct, shaft Dt, hand wheel Et, gauge S, and frame O. 2nd. The rails d, of the clamps F, when sunk in the surface of the table A, so that said rails shall be level or flush therewith, clamps r. i. fitted to suid rails, so that the lower part of the clamp shall be below the surface of the table and secured to the rails by bolts h, to admit of their being adjusted on said rails in combination with the squaring shears; 3rd. The shaft D, having eccentric journals s, and handle K, in combination with the bar G connected therewith by the yokes J, and bangers H, operating and cooperating in combination with a squaring shear P.

Improvement in Fire-Pots for Coal Stoves and Coal Furnaces. No. 5821.

(Perfectionnement de boites a feu des poeles et fourneaux a charbon.)

John F. Stewart, Hamilton, Ont., 21st March, 1876, for 5 years

Claim .- In combination with a self feeding coal stove Fire Pot A, or a fire pot of a coal Purnace, an opening B, for removing clinkers, &c., and closed by a door C, or slide or their equivalent.

No. 5822. Improvements in Umbrellas.

(Perfectionnements dans les paraplaces,)

John P Onderdonk Philadelphia, Pa. U. S., 21st March, 1876, for 5 years.

Claim,—1st. An umbrella or parasol in which sectors or portions of covering are attached at one and the same time to each other, and to the frame by clamps, clutches, catches, springs, teeth or wires, without sewing