o. 3596. John Brokenshire, Kingston, Ont., 18th June, 1874, for 5 years: "Improvement No. 3586. on Capstans" (Perfectionnement des cabes-

Claim—1st The cavity A, B, between the body of the capstan t, t, and the apron C, D, 2nd. The covering of the main gear up within the cavity A, B; 3rd. The covering or apron C, D, thrown over pawls c, c, c. for protection from ict. &c., &c., &c., with the combination of all other parts of the capstan as described.

No. 3587. Julius Hock, Vienna, Austria, 18th June, 1874, for 5 years: "Improvements on Motor Engines Worked by the Combustion of Petroleum other Hydro-carbons." or (Perfectionnements aux machines de propulsion consumant le pétrole ou autres hydro-

Carbures.)

Claim.—1st. The combination of the supply vessel A, and its pipe E, check valve E1, and nozzle E2, with the air valve F1, and nozzle E. whereby a stream of combustible liquid is broken into spray and mingled with air as it enters the working cylinder Z. as described; 2nd. The con bination with the supply vessel A, of an adjustable plunger B, for altering the level of the combustible liquid in the vessel, so as to regulate the stream thereof supplied to the cylinder, as described; 3nd. The combination of the beliews or air pump R, with the vessel II, gasometer M, nozzles N1, and J, and the aperture and valve J1, for effecting the ignition of the combustible charge in the cylinder, as described; 4th. The combination of the governor f, with the valve b, through an adjustable spring, connecting rod d, d, and lever R1, whereby the speed of the engine can be regulated by the admission of more or less sur to the wrking cylinder. As described; 5th. The combination of a working cylinder. Equipment of the secretal apparatus referred to in the preceding claims with a connecting rod, crank shaft and fly wheel, constituting a petroleum motor engine, as described.

o. 3588 WILLIAM GOWEN, Wausau, Wis., U. S., 18th June, 1874, for 5 years: "Improvements on Head Blocks and Setworks for Saw-mills." (Perfectionnements aux poupées et aux moufies de scieries.)

et aux mousses de scieries.)

Claim.—It. The fiame D. shaf E friction gears F. G. and shaft H. incombination with the set rod B, and carriage A, for receding the jack head by the motion of the carriage A, and receiving the shaft E, for bringing the friction wheels F. G. into contact for the purpose set forth, and the construction of the double balance pawl J. operating as set forth for reversing the rat het and goar wheel Jr. by the lever Ji: 4th. The combination of the du ube balance pawl J. operating as set forth for reversing the rat het and goar wheel Jr. by the lever Ji: 4th. The combination of the du ube balance pawl J. operating as set forth for reversing the rat het and goar wheel Jr. by the lever Ji: 4th. The combination of the du ube balance pawl J. operating A, the projecting arms surporting the set rod B, and ratchet quadrant M bobed thereto and bearing the set rod B, and ratchet quadrant M bobed thereto and bearing the set rod B, handring the lever Ji, and gear ratchet wheel Jr: 6th. Providing the traine C, with lugs O, for happing the eccentries P, and shifting red Q, by the axial pins; 7th. The application of eccentries P. for oper tring the shifting rod Q; the shifting fromes R, for oper ating the sliding gears R; and set rod B; for operating one or more jack heads independ ntly or simultaneously tog-ther at the option of the operator; 1th. The scale plates U, having a one inch se le or ascrus of graduated scale, the figures and lie se be ng upraised fr m the face for the purpose set frit; 12th. The application of the indica oror pointer V, operated by the sect rod B, in two parts and a for for the purpose set forth; 12th. The application of the indica oror pointer V, operated by the set rod B, in comb nation with a scale U; 4th. Constructing the jack head Ai, in two parts and a for for the purpose set forth; 1 th. The doss Bi, having a cam menement; 16th. The cum slotted grooves Ci, and dogs Bi, constructed and operating as described; 1 th. The operating of the operator; 1 the combination of th formed in the jack heads.

No. 3589. Thomas D. Jones, Syracuse, N. Y., U. S., 26th June, 1874, for 5 years: 'Wash-Board.' (Planche à savonner.)

Claim.—1st. The rubbing face, or board C, of an ordinary corrusated wash-board perforated with holes of any size or shape: 2nd. The combination of the perforated rubbing board C, with the movable back-board D. having channels B, cut therein and a slot in the lower rail B, as specified.

No. 3590. Joseph Corbett, Hartford, Ct., U.S., 3rd July, 1874, for 5 years: "Registering Ticket Punch." (Emporte-pièce pour le contrôle des billets.)

Cinim—lst. The combination with a ticket punch of the series of ratchets nl, shifting cam n2, and spring detent pawlo, or their equivalents; 2nd. The combination with a ticket punch of the ratchets

n, n_i , intermediate shifting com n^2 , reversible detent pawl o, and spring p; 3rd. The combination with the bell-hammer and handles of a registering ticket punch of the can h, provided with the tooth h^i , and shoulder h_i , for ruising the bell-hammer; the toombination in a registering ticket punch of the bell-hammer I, cam h, provided with tooth h^2 , and reversible pawl o, having n tooth o^2 , for revurning the cam h, to its normal position, 5th. The combination with the cover D D_i , provided with rotchet happs q, o^i , of the spring dog n. for leeking the same; 6th. The combination with the epring locking dog n, and covers D, D_i , provided with n the spring locking dog n, and covers D, D_i , provided with n the epring locking dog n, and cover of the bell or registering mechanism of the locking pin b_i , retained in place by said cover; 3th The combination with the unit registering wheel E_i , and actualing pawl p, of the secondary registering wheel E_i , provided with the space e^i , formed by outting away one of its ratchest or teeth.

No. 3591. ALBERT JEFFERY, Guelph, Ont., 6th July, 1874, for 5 years: "Improvements in Looking-Glass Holders." (Perfectionnements aux porte-miroirs.)

Claim —The holder C, with pivoted socket C₃, bar or rod B. spiral spring D, with projecting ends d, in combination with the looking-glass A, arranged and operating as described.

PIERRE TRUDEAU, Ottawa, Ont, 6th July, 1874, for 5 years: "Joiner's Bench." (Etabli de menuisier.)

Réclame – Un établi pour permettre de tailler le bois en équerre ou à fausse squerre, composés der côt s A, et B. de la pice mobile D, des plans it clinés E. et F, et des supports e, tel que d' crit.

A joiner's bench to allow of wood being tormed square or bevelled composed of the sides A. B, of the moveable piece D, inclined planes, E, F, and supports e, a described.

No. 3593 ROYAL B. UNDERHILL, Corinth, Mis., 6th July, 1874, for 5 years: "Apparatus for, Extracting Coffee." (Appareil à infuser le Café.)

 C_t im.—The conical case A, with compartments C. D. E, and F, partition plate B, solid lids K, and L, and perforated hids N, and O, as set forth

No. 3594. John Young, Goderich, Ont., 6th July, 1874, for 5 years: "Shaft Coupling for Threshing and other Machines." (Ajustage des axes des machines à battre et autres.)

Claim.—1st. The connecting hooks D. D. 2nd. The combination of the connecting hooks D. D. and coupling ring A, by means of the links c, c, c, c, and the four staples or loops B, as set forth.

No. 3595. Joseph E. Landers, New Bedford, Mass., U. S., 6th July, 1874, for 5 years: "Improvements in Flower Pots." (Perfectionnements dans les pots à fleurs.)

Claim - The inner pot C, with holes a, and h and annular space f, in combination with the outer pot A, provided with stand B, as set forth.

No. 3596. Jonathan Davis, St. Paul, Minn., U. S., 6th July, 1874, for 5 years. "Pipe Stem." (Tuyan de pipe.)

Claim —In combination with the outer cylindrical tube A, the stem B, having ascending spiral grooves a, and descending spiral grooves b, in its periphery as set for h.

No. 3597. MELANCTON BRYANT, Northport, N. Y., U. S., 6th July, 1874, for 5 years. "Improvements on Windlasses for Presses." (Perfectionnements aux vindas pour les presses.)

Claim.—The combination of the ratchet wheel, having grooves D. in the side and the lever B. having stud pin K. and loosely pivoted part E, of the pivoted detent pawl, made in two parts and pivoted together as specified.

No. 3598. Lucius B. Bishop, Horton, N. S., 6th July, 1874, for 5 years: "Spinning Wheel." (Rouet.)

Claim.—The combination and construction of the frame B, B, and the standard K, with the pulloys O, and P, and the driving wheel W, and the helt No. I, as set forth.

No. 3599. John H. Steiner, Albany, N. Y., U. S., 6th. July, 1874, for 5 years: "Fire Extinguisher." (Extincteur d'incendie.)

Claim.—1st. A "Fire Extinguisher" provided with separate and independent acid tubes C, and valves f, or their equivalents allowing the introduction of successive charges of acid as set forth; 2nd. In combination with the extinguisher having the acid tubes