No 4827. CHARLES G. HERBERT, New York, U. S., 9th June, 1875, for 5 years: "Plumber's Joint." (Joint de plomberie.)

Claim—The right and left hand threads *b*, and *b*', with blunted or flattened-ends *c*, *c*, and intervals *d*, all inside of the collar A, in combination with the ends of the lead-pipes D, D.

No. 4828. EZRA CASWELL, Lyons, N. Y., U. S., 9th June, 1875, for 5 years: "Clamping Attachment for Vices." (Ajustage des mordaches pour l'assemblage.)

Claim.—The forked-standard A, fitting over the sliding-bar of the vice, and the clamp-head B, constructed with the plane and convex-faces *h*, *h*,, and capable of full rotation on its pivot.

No. 4829. SYLVANUS BARTLETT, Westport, N. H., U. S, 9th June, 1875, for 5 years: "Improvements on Saw Sets." (Perfectionnements aux affûts de scies.)

Claim—1st. A saw set composed of anvil with pivoted and spring acted hammer, screw-lever and gauge-pieces of which one is adjustable to the length of teeth and the second to the decree of set to be given to them; 2nd. The combination of the a. il with the sliding gauge-piece of the rest-bar and the fastening set screw of the standard-arm for securing the saw rigidly in position for the setting-action of the screw-lever; 3rd. The combination of the sliding V-shaped gauge with the recessed-standard and a clamp-screw for adjusting gauge to length of saw-teeth.

No. 4830. WILLIAM HANEY, London, Ont., 9th June, 1875, for 5 years: "Improvements on Children's Carriage." (Perfectionnements aux voitures d'enfants.)

Claim.—1st. The combination of movable-arms B, bars C, E, plates F, G, and arbour or guide-rod D; 2nd. In combination with the first claim, the jointed-bed A, and bolt *b*; 3rd. The adjustable-back I, in combination with strap H and J; 4th The adjustable foot-board K, in combination with plate M, and screw L.

No. 4831. CLARK HUTCHINSON, Tonica, Ill., U. S., 9th June, 1875, for 5 years: "Nut Lock." (Noix de sûreté.)

Claim.—The process of locking screw-nuts by dividing the bolt-thread bending the divided parts laterally and applying a wire to pass between said parts and around the bolt.

No. 4832. STEPHEN NUTTING, New-Haven, Vt., U.S., 15th June, 1875, for 5 years: "Improvements on Wheel-hubs." (Perfectionnements aux moyeux de roues.)

Claim.—A hub having the annular oblique faced abutment *a*, combined with the clamping-plates C, D, and screw-sleeves E, F.

No. 4833. WILLIAM FINGLAND, and BENJAMIN J. DRAPER, Ottawa, Ont., 15th June, 1875, for 5 years: "Saleman's Check-book." (Livret de contrôle de marchand.)

Claim.—A book, per diagram, of leaves in pairs A and C, the first leaf A, perforated, and the second leaf C, not perforated; both leaves divided into coequal sections B, B, B, B, B, and numbered consecutively in duplicate 1, 2, 3, 4, 5, and so on through the book; also the use of a piece of transfer-paper which is placed between the leaves A and C.

No. 4834. CLOVIS LALIBERTÉ, Montreal, Que., 15th June, 1875, for 5 years: "Machine for Trimming Boot and Shoe Heels." (Machine à polir les talons des chaussures.)

Résumé.—La combinaison d'un brunissoir en demi-lune *h*, posé sur un essieu *g*, et travaillant par un mouvement oscillatoire au moyen l'une bielle *f* et d'un bras *d*, mis en opération par l'intermédiaire de la poulie *i*, et de l'essieu *c*.

Claim.—The combination of a half moon burnisher *h*, placed upon an axle *g*, worked by an oscillating movement by means of a coupling rod *f*, and an arm *d*, set in motion by the intervention of the pulley *i*, and the axle *c*.

No. 4835. JOHN C. BAKER, Mechanicsburgh, Ohio, U. S., 15th June, 1875, for 5 years: "Improvements on Grain Drilling and Seeding Machines." (Perfectionnements aux semoirs-traceurs à grain.)

Claim.—1st. A frame for a grain-drilling or seeding-machine consisting of a continuous wooden-bar bent into the required form, 2nd. A frame for a grain-drill or seeder composed of a bent-bar of wood and metal corner-pieces secured thereto; 3rd. In combination with the drag-bars or beams of a grain-drill or seeder a series of levers pivoted to the frame and to each other and having the drag-bars attached to them: 4th. A hoe or drill-tooth provided on its rear side with ears having a wheel or roller secured therein; 5th. In combination with the hinged drag bars having the hoes attached, the springs arranged to bear upon the bars; 6th. In combination with the crank-shaft H, and the drag-bars F, the links M, and spiral-springs *f*; 7th. In combination with the crank-shaft H, connected with the drag-bars, the hand-lever O, mounted on the main-shaft or axle and connected by a sleeve N, the one end of shaft H; 8th. In combination with the hand-lever O, arranged to raise and lower the hoes, the arm P, connected with the gearing by which the feeding devices are driven and arranged to be operated by the hand-lever whereby the raising of the hoes serves to throw the feeding-devices out of action, and *vice-versa*; 9th. The combination of the feed-roll, the distributing-wheel, and the cup or case; 10th. In combination with the feed-roll and cup the regulating-slide provided with the opening *d*, and depending flange *f*, 11th In combination with the driving shaft and the feed-cup, the feed-roll bearing at one end only on the shaft, and held and guided at the opposite by the cup; 12th. In combination with the feed-roll and its shaft, the pin inserted through the roll into the shaft and held in place by the cup or case. 13th. In combination with the feed-regulating slide provided with the oblique-slot in its end, the hand-lever V, pivoted to the end of the grain-hopper and working at its lower end in said slot; 14th A series of independent clearer-legs suspended freely at their upper ends, arranged to enter the ground at their lower ends and remain at rest until the hoes have advanced, past them and to then rise swing forward of the hoes and enter the ground; 15th. In combination with the crank-shaft H, having the clearer-legs suspended thereon, the arm J, connected with said shaft and the eccentric k, mounted on the main-shaft or axle.

No. 4836. WILLIAM MCCAMMON, Albany, N. Y., U. S., 15th June, 1875, for 5 years: "Improvement on Piano-Fortes." (Perfectionnement des pianos-fortés.)

Claim.—1st. Operating one or more octaves of the dampers in such a manner that the tones of either the trebles or bass notes may be prolonged at the pleasure of the performer; 2nd. The devices for operating the treble and bass dampers independently of the other, in combination with the mechanism for raising all the dampers at once.

No. 4837. SAMUEL N. GUSTIN, Mexico, N. Y., U. S., 15th June, 1875, for 5 years: "Improvements on Animal Pokes." (Perfectionnements aux carcans à bétail.)

Claim—1st. The axle-bar constructed of two parts *a* and *b*, secured laterally to the stale by the clip *c* and *d*, and staple C; 2nd. The metallic-clasps D, secured adjustably to the ends of the yoke B, and engaging with the parts *a* and *b*, of the axle-bar; 3rd. The combination of the parts *a* and *b*, of the axle-bar having projections *g*, and the clasps D, having a slotted-eye K, for retaining the parts connectedly and removably at certain angles of adjustment; 4th. The press-bar F, having slotted guide-lugs *G*, the cross-head I, having slots H and bolt J; 5th. The coiled-springs K, in combination with the press-bar F, cross-head I, and teeth *h*, for retracting the press-bar after depression.

No. 4838. EDWARD A. KITZMILLER, Pittsburgh, and WILLIAM J. SMITH, Alleghany, Pa., U. S., 15th June, 1875, for 5 years: "Broom Handle Painting Machine." (Machine à peinturer les manches à balais.)

Claim.—1st. The painting-rollers J, K, receiving an imprint from the design-rollers D, F, and transferring such imprint to a broom-handle or other article to be ornamented, revolving in contact therewith; 2nd. The combination of paint distributing rollers C, E, design-rollers D, F, painting-rollers J, K, pivoted in frames I, and hollow revolving-shaft G, for receiving and rotating the broom-handle, the several parts operating conjointly with each other.

No. 4839. JACOB H. MYERS, Rochester, N. Y., U. S., 15th June, 1875, for 5 years; "Improvement on Harvester-Rakes. (Perfectionnement des râteaux de moissonneuses.)

Claim.—1st. The spring cam arm *b*, actuated by the rake-roller, for opening the switch or gate in the cam track, causing the arm to act as rake arms in combination with the weighted or spring-latch *d*, for holding the cam-arm away from the switch or gate when it is desired that the rake-heads shall act as gatherers only, 2nd. The combination with the rake-tripping devices of an index-arm or lever, controlled by the driver on the machine, for setting said tripping-devices, to cause the rake automatically to discharge the gavels at any desired regular distance apart; 3rd. The ad-