

Claim.—1st. In a drier, a stackless flue having a series of perforations in the lower halves of its side walls, and having an imperforated top and end wall, substantially as specified. 2nd. In a drier, the combination of two stackless flues arranged in line with each other, and having imperforated tops or upper side walls and perforations in the lower halves of their side walls, with a solid wall separating the flues from each other, substantially as shown and described. 3rd. In a drier, the main portion A having nearly closed sides, ends and top, and an open flooring B, in combination with the flues E, E', separated by a solid wall E, and provided with perforations E, in said flues, substantially as shown and described. 4th. In a lumber drier, a stackless flue having communication through the lower portion thereof, with the main portion of the drier, substantially as described. 5th. In a lumber drier, a stackless flue, in combination with a main portion provided with an open floor, and with eight openings between the floor and the flue, substantially as specified.

No. 24,199. Circular Saw Mill.

(Scierie à Sices Rondes)

Robert B Holt, Allensville, Ky., U.S., 1st June, 1886, 5 years.

Claim.—In a circular saw mill, the combination, with the arched support, having circumferential flanges, of a saw carrying shaft extending across the same in movable bearings, toothed racks moving vertically in the openings of said supports upon which the bearings rest, a lower shaft bearing pinions which engage the racks for adjusting the same, the operating lever and its pivoted dog, the actuating pinion and the detent by which it is engaged, all substantially as shown and for the purpose described.

No. 24,200. Lemon Squeezing Machine.

(Pressoir à Citron.)

George Crawford, Hamilton, Ont., 1st June, 1886; 5 years.

Claim.—1st. In a lemon-squeezing machine, the combination of the metal standard A, provided with two projections a, the lemon-squeezer E attached to the rack bar E', which moves by means of the segment wheel F and its handle G, cap J and the coil spring I, substantially as and for the purpose hereinbefore set forth. 2nd. The combination, in a lemon-squeezing machine, with the standard A, segment-wheel F handle G, spring I, cap J, bar E', lemon-squeezer E, a holder B, which supports the cup c, and the convex perforated plate D, the whole arranged and combined substantially as and for the purpose hereinbefore set forth.

No. 24,201. Can Opener.

(Cisailles à Boîtes Métalliques.)

The Thacher Belt Fastener Company, Cleveland (Assignee of Thomas H. Way and Frank X. Way, Springfield, Ohio, U.S., 1st June, 1886; 5 years.

Claim.—1st. In a can opener, a frame having a longitudinal slot therein, a point at one end of said frame, and an adjustable cutter in said slot, said frame being provided with a curved handle at right angles to the plane of the cutter, said handle being extended at an angle to the frame in the plane in which it travels and turned back, substantially parallel with said frame, as set forth. 2nd. The combination, with a frame having a point at one end and provided with the longitudinal slot, with an adjustable cutter thereon, of the handle B and the rear knife c, substantially as specified. 3rd. The combination, with the frame having a point at one end, and a curved handle at the other, and an adjustable cutter on said frame, of a cutter e and a guide f located at or near the junction of the said handle and frame, substantially as specified. 4th. The combination, with the frame and the curved handle joined thereto, of the pivoted cutter e, stop e', and guide f located at or near the junction of said handle and frame, substantially as set forth. 5th. The combination, with the frame provided with the longitudinal ribs and slot, an adjustable cutter located between said ribs, the pivoted cutter e, guide f and angular handle B, substantially as set forth.

No. 24,202. Nut Lock. (Arrête-Ecrou.)

Benjamin Carrier and John Fluetto, Lewiston, Me., U.S., 1st June, 1886; 5 years.

Claim.—1st. In a nut lock, the oblong screw c, having its faces d, e threaded, and the faces f, A flattened or smoothed, as described and shown. 2nd. In a nut lock, jam nut b having mortises i, as shown, and nut a having oblong centre hole g, grooves m, loverspring k, catch J, handle l and pin s, for keeping it in position, as shown and described and for the purposes set forth. 3rd. In a nut lock, the combination, with a bolt having screw-threaded faces d, e, and faces f, A, as shown, of the nut a and d, having mortises i, grooves m, spring k, handle l, catch J, pin s and oblong centre hole b, substantially as and for the purposes described and shown.

No. 24,203. Loading Apparatus for Ordnance. (Appareil pour Charger les Canons.)

Lignell V. Urton (Assignee of William R. Elliott), Kansas, Mo., U.S., 1st June, 1886, 5 years.

Claim.—1st. A loading device for ordnance, consisting of a disk fitting the bore of the piece, provided with means of connecting the cartridge specially constructed for that purpose, said disk having a stem projecting through the breech in line with its bore. 2nd. A loading device for ordnance, consisting of a disk or head fitting the bore, having a tubular stem projecting through the breech and containing the firing needle, having a passage through said head. 3rd. A loading device for ordnance, consisting of a head or disk, capable of being moved along the bore of the piece, and provided with means for attaching thereto a specially constructed cartridge. 4th. The combination, with a piece of ordnance, of a disk D, recess d, tubular stem D, firing pin E, bearings c, spring E', and chain E". 5th. The combination of a piece of ordnance breech perforation C, tubular

stem D, head D', dovetailed recess d, firing pin E, bearings c, spring E', cartridge base F, dovetailed projection f and lubricator G. 6th. In combination, with a loading and firing device for ordnance, a cartridge having a base F with a dovetailed projection, by means of which it can be connected to a draw or loading rod, and a lubricator G, all substantially as shown and described and as and for the purpose set forth.

No. 24,204. Sickle Bar for Harvesters, etc.

(Socle pour Lames de Moissonneuses, etc.)

Earl Boyce and Bent R. Bentson, Palisade, Dak., U.S., 1st June, 1886, 5 years.

Claim.—1st. In a sickle bar, the combination of a finger-bar having the usual fingers or guards and the usual groove for the cutter-bar, and formed with a groove parallel to the groove for the reciprocating cutter-bar, with a lower cutter-bar fitting in the said groove, and having cutters registering with and fitting into the slots of the fingers or guards, as and for the purpose shown and set forth. 2nd. In a sickle-bar, the combination of a finger-bar having the usual fingers or guards and the usual groove for the reciprocating cutter-bar, and formed with a groove parallel to the said groove and merging with its rear edge into the same shorter than the groove for the reciprocating cutter, with a cutter-bar fitting in the shorter groove, and having cutter blades registering with and fitting into the slots of the fingers or guards, as and for the purpose shown and set forth. 3rd. In a sickle-bar, the combination of a finger-bar having the usual fingers or guards, provided with recesses or notches in the forward ends of their slots, and formed with a shorter groove parallel to the groove for the reciprocating cutter-bar, merging with the rear edge into the said groove, with a bar fitting into the shorter groove, and having cutters registering with the fingers or guards, and provided with tongues at their outer ends fitting into the recesses in the ends of the slots of the fingers, and a reciprocating cutter-bar sliding in the groove of the finger-bar and bearing against the rear edge of the lower bar, as and for the purpose shown and set forth.

No. 24,205. Rotary Fish Net. (Truble Tournant.)

Benjamin W. Clark, Herndon, Va., U.S., 1st June, 1886; 5 years.

Claim.—1st. A rotary dipping net, having buckets formed between partitions, which radiate from the axis of the shaft which forms the centre of motion to said wheel, and sides formed of flanking disks, the outer edges of which are concentric to the axis of said rotary net, substantially as and for the purpose set forth. 2nd. The rotary dipping-net, substantially as described, constructed with buckets formed from rotating disks and radiating wings or partitions, the latter cupping inward at their free ends to form barriers to the back movement of the fish, in combination with the double deflecting chutes which form the bottom of said buckets, all arranged as specified. 3rd. The combination, with the rotary dipping-net formed as described, of the apron P, the adjusting lever r and supporting boats N, O, all arranged as and for the purpose set forth.

No. 24,206. Adjustable Pool Rack, Ball Spotter and Game Register Combined. (Porte-Balle Triangie et Marqueur de Billard Combinés.)

Thomas M Walker, Bellefontaine, Ohio, U.S., 1st June, 1886; 5 years.

Claim.—1st. The combination of the triangle, with the racks atached to opposite sides thereof, and a suitable support for the racks and triangle, the support being adapted to be raised and lowered, carrying the racks and triangle with it, substantially as shown. 2nd. The combination of the slotted support, the slide and counterweight, with the triangle and the racks which are secured to opposite sides thereof, substantially as described. 3rd. The combination of a suitable support, the triangle, the two racks connected thereto, and the wires which act as stops to keep the balls in place in the racks, substantially as set forth. 4th. The combination of the slotted support, the slide and block which move vertically thereon, the spring, the dog connected to the lower end of the spring, and the notched slide placed in the register, substantially as specified. 5th. The combination in a single apparatus of an automatic game-register, a triangle, the ball-racks connected thereto and a counter-weight for holding these parts suspended in any desired position, substantially as shown.

No. 24,207. Bench Hook. (Mentonnet)

Edward C. Cole (Assignee of Aaron J. Tyler), Albion, N.Y., U.S., 1st June, 1886; 5 years.

Claim.—1st. A movable bench hook, combined with a clamping arm, and runcle joint operating thereon, substantially as specified. 2nd. A movable bench hook, combined with a suitable bed plate or support, a clamping arm, a runcle joint operating said arm, and a screw operating said joint and having a head seated in said plate, substantially as specified. 3rd. A movable bench hook, combined with a suitable bed plate or support, a clamping arm, a runcle joint connected thereto, a screw operating the joint and a cross-shaped head on said screw seated in the said bed plate, substantially as specified.

No. 24,208. Window Screen. (Ecran de Fenêtre.)

Edmund W. Donovan, John S. Macleod, Detroit, Mich., and Leon N. Caron, Windsor, Ont., 1st June, 1886, 5 years.

Claim.—The housings E, E', constructed as described, and the covering-board F, in combination with an automatic roller and a flexible screen B, substantially as and for the purpose set forth.

No. 24,209. Belt Fastener. (Agrafe de Courroie.)

The Smith Belt Hinge Company (Assignee of Eugene C. Smith), New York, N.Y., U.S., 2nd June, 1886; 5 years.