

operating cam mounted on the pointer-operating cam shaft adapted to operate the stop-operating bar or bars at times, in accordance with the action of the pointer-operating cams and pointers, so as to insure the correct delivery of the individual nails, substantially as shown and described. 33rd. In a box-nailing machine, the combination, with she bars *a*, *a*, of the springs *a*¹², *a*¹³ and cams *U* and *X*, arranged and adapted to operate substantially as shown and described. 34th. In combination with the nail-feeding mechanism of a box-nailing machine, of a series of pivoted stops *S*, each provided with a nail-tilting hook or projection *a*¹⁹, substantially as and for the purpose described. 35th. In combination with the nail-feeding and delivering mechanism, of a box-nailing machine, of a series of nail-receivers supported on an adjustable bar or carrier capable of adjustment vertically, so as to adjust the position of the mouths of the receivers in relation to the nail mechanism, substantially as and for the purpose described. 36th. In combination with the nail-feeding and delivery mechanism of a box-nailing machine, of the nail-receivers *I* constructed and adapted to conduct nails to the nail-driving mechanism, substantially as shown and described. 37th. The combination, with a nail box of a box-nailing machine, of a compound nail clamp, constructed and adapted to operate substantially as shown and described. 38th. The combination, with the nail box of a box-nailing machine, of a sectional nail clamp, adapted to act successively on the shanks and heads of the nails inserted thereby, substantially as and for the purpose described. 39th. The combination, with the nail box of a box-nailing machine, of a sectional nail clamp, each section of which is formed of a series of plates pivoted together and controlled in position by springs, one set of plates being arranged to act first on the shank, and the second to retain the nail in position by its head, substantially as shown and described. 40th. In a box-nailing machine, the combination, with a nail box, of a nail clamp formed with a receiving cavity, and a series of extending plates adapted to act successively on the shanks and heads of nails inserted, substantially as shown and described. 41st. In a box-nailing machine, the combination, with a nail box, of a clamp *H* formed of sections constructed of a series of pivoted plates, and a double pair or series of springs adapted to operate on the sectional plates of the clamp, substantially as and for the purposes described. 42nd. The combination, of the nailways of the nail-feeding mechanism, of the adjustable pointer-holding means *Z*, and nailway stops *S*, substantially as and for the purpose described. 43rd. In a box-nailing machine, a nail-feeding pan *O* and a nail-feeding mechanism *P*, having a simultaneous vertically-reciprocating motion, substantially as shown and described. 44th. In a box-nailing machine, a nail-feeding mechanism *P*, having a series of nailways formed of plates supported at an angle with capability of a reciprocating or rocking motion, substantially as shown and described. 45th. In a box-nailing machine, a nail-feeding mechanism *P*, supported adjustably at an angle with capability of a regulated reciprocating rocking motion at each stroke, or operation, of the cross-head of the machine, substantially as and for the purpose described. 46th. The combination, with the nail box, frame and punch-holding frame of a box-nailing machine, of a series of nail boxes and punches formed with extensions of varying lengths, adapted to hold the nail boxes and punches in position to insert nails in rows, substantially as shown and described.

No. 25,717. Permutation Lock.

(*Serrure à Combinaison.*)

John M. Grau and Frederick Stall, Fort Leavenworth, Ks., U. S., 13th January, 1887; 5 years.

Claim.—In a combination lock, a metal casing *L*, having a back plate made in two sections *L*¹ and *L*², the former serving as a bearing for the end of the bolt spindle, and the latter as a bearing for the pin carrying, a number of tumblers, and provided with a slot *h*, whereby the position of the tumblers may be determined from the back of the lock, substantially as shown and described.

No. 25,718. Shutter Operating and Fastening Device. (*Fermeture de Contrevent.*)

Arthur M. Burnham and Charles Gifford, Gardiner, Me., U. S., 13th January, 1887; 5 years.

Claim.—1st. The combination, with a blind or shutter and a slotted strap or plate fixed thereto, of an operating rod bearing in the window frame in inclined position, having rectangular arm lying in a plane outside of that of the operating rod, substantially as and for the purpose set forth. 2nd. The combination, with a blind or shutter and a slotted strap or plate fixed thereto, of an operating rod bearing in the window frame having a rectangular arm secured adjustably thereto, and lying in a plane outside of that of the operating rod, substantially as and for the purpose set forth. 3rd. In combination with a blind or shutter operating rod, having inclined bearing in the window-frame, and arm on its outer end, the slotted strap or plate fixed to said blind or shutter, and notched at opposite points for locking said arm in its extreme position, for the purpose set forth. 4th. A blind or shutter operating rod bearing in the window-frame, having enlargement or ball on its inner end occupying a socket or recess in the window-frame, substantially as set forth. 5th. In combination with a blind or shutter operating rod, having inclined bearing in the window-frame, and an arm on its outer end, the slotted strap or guide fixed to said blind or shutter, and having a series of notches or projections for engaging said arm, and thereby locking the shutter at any desired position, substantially as set forth. 6th. In combination with a blind or shutter operating rod, having inclined bearing in the window-frame, and an arm on its outer end, the slotted strap or guide fixed to said blind or shutter, and having on its outer side a series of notches, substantially as and for the purpose set forth. 7th. The combination, with a blind or shutter operating rod having inclined bearing in the window-frame, and an arm on its outer end, of the slotted strap or guide fixed to said shutter, and having, on its inner side a single notch or projection located above the bottom portion of the guide, substantially as and for the purpose set forth.

No. 25,719. Implement for Weeding and Cultivating Land. (*Scarificateur d'Agriculture.*)

Samuel H. Mitchell, St. Mary, Ont., 13th January, 1887; 5 years.

Claim.—1st. The combination of bars *a* and *a*, with construction of the frame of cultivator, substantially as and for the purposes hereinbefore set forth. 2nd. The combination of both *K* and *L* with the frame *m*, as and for the purposes hereinbefore set forth. 3rd. The combination of the knife or hoe *g*, *g*, and *g*, with the frame *p*, substantially as and for the purposes hereinbefore set forth. 4th. The combination of the teeth *K* and *L* with the knife or hoe, aforesaid *f*, *g* and *g*, with the cultivator frame aforesaid *a* and *a*, substantially as and for the purposes hereinbefore set forth.

No. 25,720. Door Lock. (*Serrure de Porte.*)

Thomas E. Rogers, Jackson, Mich., U. S., 13th January, 1887; 5 years.

Claim.—1st. The combination of the latch spindle *1*, the circular disk *2*, provided with the notch *8* and the latch *6*, substantially as and for the purpose hereinbefore set forth. 2nd. The combination of the latch spindle *1*, the circular disk *2* provided with the notch *8*, the latch *6* and the rosette *4*, substantially as and for the purpose hereinbefore set forth.

No. 25,721. Holder for Tickets, etc.

(*Serre-Billet, etc.*)

Ernst Mogel, Dresden, Germany, 13th January, 1887; 5 years.

Claim.—1st. My ticket-holder composed of two plates, which are connected by a spring joint, and held together by a catch device composed of the rod *b*, nose *n*, spring *g* and knob *d*, Figs. 5, 6, 7, 8, substantially as and for the purpose hereinbefore set forth. 2nd. The plate *f*, enclosed or inserted in the object in question, and which can be raised by the knob *c*, or by the plate *e*, and the cam or trappet *d*, the ticket being inserted in the slot *b*, Figs. 1 and 2, substantially as and for the purpose hereinbefore set forth. 3rd. The pin or pegs, which simultaneously serves to perforate the ticket or other similar objects, and to firmly hold the same by means of the flexible nose *f*, which catches in a recess of the said pin or pegs, substantially as described. 4th. The arrangement of the pin or stem *b* on the handle of the stick or umbrella, which is held in position by the rod *a*, with nose *n* and spring *g*, and slot *c* for the reception of the ticket, substantially as described. 5th. The plate *p*₁, which is held by means of a hollow rod, in which the guide pin *c*, spring *g* and the stop motion for the loose plate *p*, composed of the rod *a* with nose *n*, are arranged all substantially as and for the purpose hereinbefore set forth.

No. 25,722. Lock for Reverse and Throttle Levers. (*Arrêt pour Leviers de Changement de Marche.*)

George P. Whittlesey and Daniel P. Wright, Washington, D. C. (assignee of Charles May, Sunbury, Penn.), U. S., 13th January, 1887; 5 years.

Claim.—1st. The combination, with a lever and its quadrant, of a main locking mechanism and an auxiliary locking mechanism, operated by the same handle that controls the main locking mechanism, substantially as and for the purpose described. 2nd. The combination, with a lever and its notched quadrants, of a latch to lock the lever in a position corresponding to any one of said notches, and an auxiliary locking device to lock the lever in intermediate positions, said auxiliary locking device being operated by the same handle that controls the latch, substantially as and for the purpose set forth. 3rd. The combination, with a lever and its notched quadrant, of a main latch and one or more auxiliary latches, all operated by the same handle, substantially as and for the purpose described. 4th. The combination, with a lever and its notched quadrant, of two or more latches, all operated by the same handle, the notches and latches being so arranged that only one latch is in engagement with the quadrant at the same time, substantially as and for the purpose set forth. 5th. The combination, with lever *A* and quadrant *B*, having notches *b*, *b*, of handle *D*, links *E*, *E*, pin *F* and latches *H*, *I*, having slots *a*, *g*, said slots being equal in length to the depth of a notch plus diameter of pin *F*, substantially as and for the purpose set forth. 6th. The combination of lever *A*, quadrant *B*, having notches *b*, *b*, handle *D*, links *E*, *E*, pin *F*, bolt *G*, main latch *H* having slots *a*, *h* and lug *e*, and auxiliary latch *I* having lugs *f*, *f*, and slots *c*, *d* and *g*, substantially as and for the purpose set forth. 7th. The combination of lever *A*, having lug *M*, quadrant *B* having notches *b*, *b*, handle *D*, links *E*, *E*, pin *F*, bolt *G*, latches *H* and *I*, rods *K*, *K*¹ and springs *L*, *L*¹, substantially as and for the purpose set forth.

No. 25,723. Machine for Making Staples.

(*Machine pour Fabriquer les Crampes.*)

The Peninsular Novelty Co., Grand Rapids, Mich. (assignee of John H. Winton, Boston, Mass.), U. S., 13th January, 1877; 5 years.

Claim.—1st. In a machine for making staples, a former over which the wire is bent, and a vertically reciprocating die to cut off the wire and bend it over the former, combined with hammers to strike and broaden the ends of the wire, and means, substantially as described, to operate the said hammers, as set forth. 2nd. In a machine for making staples, the former and die, and means, substantially as described, for operating said die, combined with a pair of presser-levers, means, substantially as described, for operating them, and the adjusting screws *f*, *f*, and the hammers *m*, *m*, as set forth. 3rd. In a machine for making staples, the former and die, combined with the ejector moving upon the former to free the latter of staples, and means, substantially as described, for moving said ejector positively in both directions, as set forth. 4th. In a machine for making staples,