No. 21,843. Cutting Apparatus for Mowers and Reapers. (Lames de Faucheuses Moissonneuses.)

Henry T. Sanford, Albany, (Assignee of Erasmus J. Sanford, Lawrence,) N.Y., U.S., 9th June, 1885; 5 years.

ce.) N.Y., U.S., 9th June, 1885; 5 years.

Claim.—Ist. In a cutting apparatus for mowers and reapers, the finger guard ba: A formed by the combination of the bar a. guard fingers at, at, provided each with a horizontal slot as having its lower side x above the plane of the upper side surface of bar a. and the shoulders s at the front edge of said bar, keepers d. d provided with shoulders or lips st and shoulders s², and plate D fixed to the heel end of said bar, and provided with locking tongue a4, substantially as and for the purposes set forth. 2nd. In a cutting apparatus for mowers and reapers, the combination, with finger guard bar A having bar a, guard fingers a4, provided with horizontal slot surfaces x and shoulders s², and keepers d provided with shoulder lips st and shoulders s², and plate D having locking tongue at, the removable stationary cutter bar B formed by bar b provided with holding notch b², adapted to engage with said holding tongue at, and the V shaped knives b¹ screwed to bar b, substantially as and for the purposes set forth. 3rd. In a cutting apparatus for mowers or reapers, the combination of the fingers guard bar A, constructed in its several parts as above described, removable stationary cutter bar B, constructed in its parts as above described, of the reciprocating bar C above described, all arranged substantially as set forth for the purposes specified.

No. 21.844. Weather Strip. (Bourrelet de Porte.)

William J. Devers, Providence, Pa., U.S., 9th June, 1885; 5 years.

Claim.—The combination of the hinged door A, having the strip E1 at the hinged edge formed with a tongue er projecting in a plane paralled with the plane of the door, and strip D secured to the opposite edge of the door, and having a groove d in a plane at right angles to the tongue er and the plane of the door, with the grooved and tongued strips Dr. dr. Et, er on the door casing, for engaging respectively the tongue er and the groove d, as herein shown and described.

No. 21,845. Button Hole Attachment for Sewing Machine. (Machine à Coudre faisant les Boutonnières.)

John K. Harris, Springfield, Ohio, U.S., 9th June, 1885; 5 years.

John K. Harris, Springfield, Ohio, U.S., 9th June, 1885; 5 years. Claim.—1st. In a button-hole attachment for sewing machines, the combination, with the feed bar and the cloth clamp, of a continuous rack having rounded end. an intermittingly rotated pinion and a guide for retaining the latter in gear with said rack, substantially as hereinbefore set forth. 2nd. In a button-hole attachment for sewing machines, the combination, with a cloth clamp, of a feed plate or bar therefore, provided with a continuous adjustable or extensible rack having semi-circular or rounded ends, an intermittingly rotating pinion, and an adjustable or extensible guide for retaining the latter in gear with the said rack, subtantially as hereinbefore set forth. 3rd. In a button-hole attachment for sewing machines, the combination, with an oscillating and longitudinally movable feed bar carrying a cloth clamp at its forward end, and provided at its rear end with a continuous adjustable or extensible rack having rounded ends, an intermittingly rotated pinion and an adjustable or extensible guide for the pinion stud, whereby fabrics may be automatically moved to entirely work different sized button-holes, without turning the goods or cloth clamp bodily around the vertically line in which the needle reciprocates, substantially as hereinbefore set forth. the needle reciprocates, substantially as hereinbefore set forth.

No. 21,846. Brick Machine. (Machine à Brique.)

Joel Tiffaney, Hinsdale, Ill., U.S., 9th June, 1835; 5 years.

No. 21,846. Brick Machine. (Machine & Brique.)

Joel Tiffaney, Hinsdale, Ill., U.S., 9th June, 1835; 5 years.

Claim—1st. In a brick-machine, the combination, with the mould, of horizontally-reciprocating plungers constituting the sides thereof, a main pressure lever for operating both of said plungers, connecting rods and an intermediate lever connecting said main lever with said plungers, and a cam for operating said main lever, substantially as described. 2nd. In a brick-machine, the combination, with the mould, of horizontally-reciprocating plungers constituting the sides thereof, a vertically-reciprocating plungers constituting the bottom thereof, and a sliding plate constituting the top thereof, substantially as set forth. 3rd. In a brick-machine, the combination, with the mould, of horizontally-reciprocating plungers constituting the sides thereof, a main pressure-lever for operating said main lever, and an adjustable stop for regulating the drop of the main lever, and an adjustable stop for regulating the drop of the main lever, and an adjustable stop for regulating the drop of the main lever, and an adjustable stop for regulating the drop of the main lever, substantially as described. 4th. In a brick-machine, the combination, with the mould of horizontally-reciprocating plungers constituting the sides thereof, a sliding top frame provided with two openings respectively for the feeding of the clay and discharge of the brick, and with an intermediate plate between said openings, which constitutes the top of the mould, and causs for reciprocating said frame intermediately to bring the feed-opening, the plate and the discharge-opening successively into position over the mould, substantially as set forth. 5th. In a brick-machine, the combination of the side plates convering the plates and webs, substantially as described. 6th. In a brick-machine, the combination of the side plates constituting the ends of the mould, the angle-bars connecting said side plates, said bars being each composed of a transverse ho

right lever N, the connecting-rod M, connecting plunger C with said lever N, and the lever O conecing said lever N with said lever K, substantially as described. 8th. In a brick-machine, the combination of the side plates A. A, the sliding top frame E, the plates d, d, the horizontally-reciprocating plungers C, Ct, the lever K, the connecting-rod L connecting said lever with the plunger Ct, the upright lever N, the connecting-rod M connecting said lever N with said lever K, substantially as described. 9th. In a brick-machine, the combination of the side plates A, A, the sliding top frame E, the plates d, d, the horizontally-reciprocating plungers C, Ct, the lever K, the connecting-rod L connecting said lever with the plunger Ct, the upright lever N, the connecting grain lever with the plunger Ct, the upright lever N, the connecting plunger D the lever P and the cams for actuating said lever, substantially as described. 10th. In a brick-machine, the combination, with the mould, of the horizontally-reciprocating plunger C, the upright lever N, the connecting said lever with the plunger C, the upright lever N, the connecting said lever with the plunger C, with said lever K, the connecting produced with the plunger C, the upright lever N, the connecting said lever W with said lever K, the upright lever N, the connecting said lever W with said lever K, and the adjustable stop S for regulating the drop of lever K, substantially as described. 11th. In a brick-machine, the combination, with the mould, of the sliding top frame E provided with openings h. i, and having horizontal arms E1, vertical arms E2, E3, dependent from said horizontal arms. and a horizontal arms E4 having a dependent uge E3, a shaft and disks on said shaft provided with pins, which engage sait dependent arms and lugs, substantially as described. 12th. In a brick-machine, the combination, with the mould, of the horizontally-reciprocating plungers C, Ci, the vertically-reciprocating plunger B, the lever P, the driving shaft G and cam disks on said dr

No. 21,847. School Slate. (Ardoise d'Ecole.)

Thomas A. M. Moore, Chatham, Ont., 10th June, 1885; 5 years.

Thomas A. M. Moore, Unatham, Unt., 19th June, 1855; 5 years.

Claim.—Ist. In combination with a school slate, the hinged covers
D. D. for the prevention of obliteration of exercised in writing or
figures, which it is desirable to preserve upon the slate, substantially
as described. 2nd. In combination with a school slate, the hinged
covers D, D, provided with printed, written, stamped, or engrave t
exercises in writing, arithmetic, tables, or other suitable subjects for
the study and education of the pupil, substantially as set forth. 3rd.
The combination, in a school slate, of the slate A, the frames B B,
B1 B2, the hinge pin C, the cover or covers D, D, provided with
hinges E, substantially as and for the purposes hereinbefore set
forth.

No. 21,848. Explosive Compound.

(Composition Explosible.)

Touissant Pkey and Oscar Fallentein, Daron, Germany, (Assignees of Herman Lisch, Fünfkirchen, Austria,) 10th June, 1835; 10 years.

Herman Lisch, Fünfkirchen, Austria.) 10th June, 1835; 10 years. Claim.—1st. The process of making explosive compounds, which consists in mixing the other substances of the said compount with a solution of gun-cotton in nitro-compound of the aromatic group of coal-tar derivatives, substantially as hereinbefore described. 2nd. The explosive compound composed of chlorate or chlorates and sulphur, sulphide or sulphides, admixed with a solution of gun-cotton in nitro-compound of the aromatic group of coal-tar derivatives, in the proportions substantially as herein set forth. 3rd. The explosive compound composed of chlorate or chlorates, nitrate or nitrates, and sulphur, sulphide or sulphides admixed with a solution of gun-cotton in nitro-compound of the aromatic group of coaltar derivatives, in the proportions, substantially as herein mentioned. tioned.

No. 21,849, Sole Sewing Machine.

(Machine à Coudre les Semelles.)

The Goodyear Shoe Sewing Machine Association, (Assignee of Zachary T. French,) Boston, Mass., U.S., 10th June, 1835; 5

Zachary T. French,) Boston, Mass., U.S., 10th June, 1855; 5 years.

Claim —1st. The needle segment, its attached curved needle and the needle guide provided with a pin 6 and a toe or projection 5, combined with the block b and with the independently movable guide moving lever to operate the needle guide, substantially as described. 2nd. The link g, the needle segment with which it is connected, the stud to support the said segment, and the needle guide mounted loosely on the said stud and provided with a pin 6, combined with the guide moving lever g, and spring connected with the guide moving lever g, and spring connected with the guide moving lever, and spring connected, with the guide moving lever, to operate substantially as described. 3rd. The needle segment, needle, needle guide and link g-2, combined with the lever e2, with which the said link is adjustably connected, to alter the length of the loop drawn by the needle, substantially as described. 4th. In a sole sewing machine, the welt guide and the welt guide slide, combined with means, substantially as described, to operate the said slide positively in both directions. 5th. The welt guide slide provided with the screw nut do, the lever d., slotted link d5 and the adjustable block to vary the extent of the positive throw of the said welt guide slide positive throw of the said welt guide slide and its attached welt guide, substantially as described. 6th. In a sole sewing machine, the sticker bar provided with teeth and offset, as described, combined with the gear h and the rock shaft d9, and means to move it, substantially as described.

No. 21.850. Sole Sewing Machine.

No. 21,850. Sole Sewing Machine.

(Machine à Coudre les Semelles.)

The Goodyear Shoe Sewing Machine Association, (Assignee of Zach ary T. French), Boston, Mass., U.S., 10th June, 1835; 5 years.

Claim.—1st. The table or work support and its connected slide provided with teeth, combined with a lever and a pawl to engage the