are cushioned separately, substantially as set forth. 5th. The combination, with the drill frame and the drill-har having a longitudinal groove mt, of the flanged clutch-head body N provided at its lower and with a removable collar mt, the ratchet ring Li provided with a feather mentering the groove mt, the pawl ring Li provided with the pawl and pin It, and the curved feed guide Is secured to the drill frame, substantially as set forth. 6th. The combination, with the drill-har provided with a longitudinal grove mt and the drill frame, of the clutch-head body M, the pawl rig L, the ratchet ring Li provided with a fonther m, the tubular cap I secured to the body N and provided with pawl o, the steere Otton which the cap O lovely rests and which is provided with a ratchet rim ot, the frame P secured to the sleeve Ot, the supporting cap R held in the frame P against turning, and the divided nut Q having its parts pivoted to the cap R in the frame P, substantially as set forth.

## No. 24,655. House Construction.

(Construction de Maison.)

Edsell Totman, Hinsdalo, Ill., U.S., 5th August, 1936, 5 years.

No. 24,655. House Construction.

(Construction de Maison.)

Edsell Totman, Hinsdalo, Ill., U.S., 5th Angust, 1336, 5 years.

Claim.—1st. The combination, with the parallel frame-pieces of a house, of a series of transverse planks forming siding or ceiling, morably held at their ondsing groots in the frame-pieces, and means for foreing togother the planks, whereby the Tot combination, with the parallel frame-pieces of a house, provided with doveatiled grooves and transverse planks having upon their onds tongues engaged with the sand grooves, of means for foreing togother the planks, whereby the points between them may be upshoned, substantially as described. 3rd. The combination, with the parallel frame-pieces of a house, and a series of transverse planks and their opposite ends with a plank at one end of the series, substantially as and for the purpose set torth. 4th. The combination, with the parallel frame-pieces of a house, provided with doveatiled grooves, and a series of planks having apon their ones dovatated togsue engaged with sand generally of belts congected with the said grooves, and a series of planks having apon their ones dovatated togsue engaged with sand generally of belts congected with the said grooves, and a series of planks forms grooves, and a series of planks forms grooves and a south series of planks forms grooved with the said grooves, and a series of planks forms grooved with the said grooves, and a south series of planks forms grooved with the said grooves, and a south series of planks forms grooved with the sudding of house and a double series of planks forms grooved with the said studding and provide the planks forms and content waits of means for holding the raid planks forms movement at one end of the study of the

scribed. 17th. A combined sheathing and lath for buildings, consisting of laths or planks, each provided with a dovetailed groove in the middle of one of its faces, and half groove upon its opposite face, at each of its edges, substantially as and for the purpose set forth. 18th. The improved construction in house sills consisting of the flat bottom pieces A<sub>1</sub>, pieces A<sub>2</sub> set on edges therein, and the pieces A<sub>3</sub> laid on the bottom pieces, and all arranged to break joints and secured teacher, substantially as and for the purpose set forth. 19th The combination, with the house-sills, consisting of three planks A<sub>1</sub>. A<sub>2</sub> and A<sub>3</sub>, secured together as described, of floor-joints if gained to fit over the pieces A<sub>4</sub>, and to come flush with the top of the piece A<sub>2</sub> substantially as described. 20th. The combination, with grooved stude B, B and a window-sash provided with grooves i, of strips is inserted in the grooves of the stude and sash, and the means for detachably connecting said strips with the sash, substantially as described. 21st The combination, with grooved stude B, B, and window-sash provided with grooves i, of spring-strips in inserted through the each and bearing upon the strips, substantially as and for the purpose set forth. 22nd The combination, with grooved stude B, B, of door frames provided with side-pieces having tongues engaged with the grooves of the stude, substantially as and for the purpose set forth. pose set forth.

## No. 24,656. Shoe Brushing Machine.

(Machine & Cirer les Chaussures.)

Levin T. Jones, Baltimore, Md . U.S., 5th August, 1886, 5 years.

Levin T. Jones, Baltimore, Md. U.S., 5th August, 1896, 5 years.

Claim.—1st. A shoe brushing machine having its brushes hinged to a reciprocating frame, and each brush provided with a spring to press the brush against the foot, substantially as sat forth. 2nd. A shoebrushing machine having, in combination, a reciprocating frame, brushes hinged or pivoted to the frame, a spring to press each brush to the shoe, and a chain or equivalent stop dovice to limit the movement of each brush, as set forth. 3rd. A shoebrushing machine having, in combination, a reciprocating frame, a front brush C provided with horizontal arms, e, which are pivoted to the forward part of the frame, and a lift device, substantially as described, connected with the brush, as set forth. 4th. A shoebrushing machine having, in combination, a reciprocating frame, a front brush C provided with horizontal arms e, which are pivoted to the forward part of the frame, a spring to press the brush on the shoe, and a lift device, substantially as described, connected with the brush, as set forth. 5th. A shoe-brushing machine having, in combination, a reciprocating frame, a front brush C provided with horizontal arms e, which are pivoted to the forward part of the frame, a standard fixed to the stand, and a chain connecting the brush with the standard, as set forth. 5th. A shoe-brushing machine having, in combination, a reciprocating frame, a front brush C provided with horizontal arms e, which are pivoted to the forward part of the frame, a spring to press the brush on the shoe, a standard fixed to the stand, and a chain connecting the brush with the standard, as set forth. 6th. A shoe-brushing machine having, in combination, a reciprocating frame, a front brush C provided with horizontal arms e, which are pivoted to the formard part of the frame, and a chain connecting the brush with the standard, as set forth. Th. A shoe-brushing machine having, in combination, a reciprocating frame, and control to the opposite side of the frame projecting across the s

## No. 24,657. Machine for Cross-Cutting Wood. (Machine à Scier de Travers.)

Frederick Mankey, Williamsport, Ponn., U S., 5th August, 1886; 5 years.

Frederick Mankey, Williamsport, Ponn., U.S., 5th August, 1886; 5 years.

Claim.—Ist. The combination of a rotary cutter, adapted to cross-cut the surface of wood at an angle to the grain thereof, a support and means for rigidly holding the object to be cross-out thereon, and feeding mechanism for moving said support beneath, and thereby subjecting said object to the action of said cutter, substantially as described. 2nd. The combination of a rotary cutter, adapted to ross-out the surface of the wood at an angle to the grain thereof, a means of vertically raising and lowering said cutter, a support and means for rigidly holding the object to be cross-out upon said support, and feeding mechanism for moving said support beneath, and thereby subjecting said object to the action of said cutter, substantially as described. 3rd The combination of a rotary cutter, adapted to cross-out thereon, feeding mechanism for moving said support beneath, and thereby subjecting said object to the action of said cutter, and yielding presser rollers adapted to bear upon said object to be cross-out thereon, feeding mechanism for moving said support beneath, and thereby subjecting said object to the action of said cutter, and yielding presser rollers adapted to bear upon said object in froit of, and in rear of said cutter, substantially as described. 4th. The combination of a rotary cutter, adapted to bear upon said object to be grain thereof, a support and means for rigidly holding the object to be cross-cut thereon, feeding mechanism for moving said support boneath, and thereby subjecting said object to the action of said cutter, and yielding presser shoes adapted to bear upon said object to the action of said cutter, substantially as described. 5th. The combination of a rotary cutter, substantially as described. 5th. The combination of a rotary cutter, substantially as described. 5th. The combination of a rotary cutter, substantially as described. 5th. The combination of a rotary cutter, substantially as described. 5th. The combina