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## RECORD




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### INVENTIONS PATENTED.

#### No. 8686. Improvements on Wind Mills.

(Perfectionnements aux moulins a vent.)

Issac H. Palmer, Lodi, Wis., U.S., 25th April, 1878, for 5 years.

Claim.—1st. The wheel support consisting of the trunk C, provided with the friction rollers c and having attached to it the sleeve b and the plate B, and step a in combination; 2nd. The combination of the vanes l arranged in converging sets or groups, and attached to the pivoted bars k, the rods n, sleeve o and regulating spring q, 3rd. The combination of the bow springs Q with the vane regulating mechanism, 4th. The combination of the weighted arms m with the vanes l 5th. The combination of the curved forked lever S with the vane regulating mechanism.

#### No. 8687. Improvements on Churns.

(Perfectionnements aux barattes.)

Samuel Bair, Spencerville, Ind., U. S., 25th April, 1878, for 5 years.

Claim.—The combination of the concentric frames carrying thin blades driven edgewise, the outer ones being slightly inclined to induce circulation, in combination with mechanism, for causing their rapid rotation.

#### No. 8688. Improvements on Picture Exhibitors.

(Perfectionnements aux porte-images.)

Oliver Williamson, Covington, Ohio, U.S., 25th April, 1878, for 5 years.

Claim.—The cabinet or case A, provided with openings a a in combination with the mat d and the mat holders c c, provided with the handles b b.

#### No. 8689. Improvement in Pruning Knives.

(Perfectionnement aux sécateurs.)

Justus Smith, Hamilton, Ont., 25th April, 1878, for 5 years.

Claim.—The combination of the handle A, hook C, knife D, saw B, lever E and connecting rod G.

#### No. 8690. Improvements on Thill Couplings.

(Perfectionnements aux armons des limonieres.)

Benjamin P. Morrison, Abingdon, Virginia, U. S., 25th April, 1878, for 5 years.

Claim.—1st. The combination of the hook B and pin F with the clip bolt E, having the flat portion, and pivoted eccentrically in the ears C 2nd. The combination of the hook B, with the clip bolt E, having the flat portion and pivoted eccentrically in the ears C.

#### No. 8691. Improvements on Saw Guides.

(Perfectionnements aux guide-scies.)

Francis Clark, Springfield, Mo., U. S., 25th April, 1878, for 5 years.

Claim.—1st. A saw guide self adjusting when in operation and pivoted or hung at the front with its axis in the plane of the saw-slit so that the axis around which the guide moves, in adjusting itself when in use on a machine, will be coincident with or near the line of the front of the saw blade; 2nd. The combination of the holder, having slotted and annularly grooved jaws, and the guide provided at the front, with segmental journals adapted to, and turning in the annular grooves of the said jaws.

#### No. 8692. Improvements on Furnaces.

(Perfectionnements aux caloriferes.)

Cornelius Ryan, Montreal, Que., 25th April, 1878, for 5 years.

Claim.—The combination of the upper half of the fire-pot B, having water space I, inlet pipe E and outlet pipe F, with the lower half H.

#### No. 8693. Improvements in Marking Pots.

(Perfectionnements dans les pots a marquer.)

William H. Rodden, Toronto, Ont., 25th April, 1878, for 5 years.

Claim.—1st. The mouth tube C, 2nd. The ring or thumble D and 3, the device F, for hinging the stopper E, in combination with the improved marking pot.

#### No. 8694. Improvement in Buggy Tops.

(Perfectionnement dans les soufflets des voitures.)

Peter H. Lindsey, Lockport, N. Y., U. S., 25th April, 1878, for 5 years.

Claim.—1st. The movable part A, in combination with the bows d d; 2nd. The movable part A, in combination with the bolt E, rubber spring h and thumb nut i, 3rd. The piece D holes c c c, in combination with the movable part A and stud g, 4th. The rubber spring h, in combination with the parts A D and bolt E, 5th. The piece D, in combination with the rubber spring h and bolt E.

#### No. 8695. Apparatus for Rescuing Goods from Fire.

(Appareil a sauve r des effets de l'incendu.)

George W. Staker, Monroe, Iowa, U.S., 25th April, 1878, for 5 years.

Claim.—1st. The truck A, in combination with the folding shelving B C and the door E, having spring catch or lock e, 2nd. The combination of the inclined track G, truck A, having folding shelving B C E, upright I, hooks s k and staples h h, the latter arranged upon shelving C, and door E, respectively.

#### No. 8696. Blind Stile Boring and Mortising Machine.

(Machine a percer et mortaiser les bois de persiennes.)

William H. Doane and George W. Bugbee, Cincinnati, Ohio, U. S., 25th April, 1878, for 5 years.

Claim.—1st. Endwise moving cutter spindle which is pivoted at one end in order that it may also be vibrated to move the cutters at its other end to and fro in mortising, 2nd. The combination of the pivoted cutter spindle, the vertically moving bearing block for the lower pivoted end thereof and the journal box near its upper end adapted to be reciprocated horizontally, 3rd. The combination of the cutter spindle, the vertically moving bearing block for the lower end, and the journal box near its upper end adapted to be reciprocated horizontally, and the guide block which determines the line of motion of the said journal box when reciprocated, 4th. The combination of the cutter spindle, the vertically moving bearing block for the lower end thereof, the journal box near its upper end, the guide block which determines the line of motion of the said journal box when reciprocated, and a mechanism of the character described, adapted to either hold the said journal in a fixed position, or to reciprocate it according as it is desired to bore or to mortise the stile, 5th. The combination of the cutter spindle the vertically moving bearing block for the lower end thereof, the journal box near its upper end, the guide block which determines the line of motion of the said journal box when reciprocated, the lever operated upon by an adjustable crank pin adapted to either hold said lever in a fixed position or to vibrate it, and a connecting rod which connects said lever to said journal box, 6th. The combination of the pair of cutter spindles, the journal boxes for the tool carrying ends thereof, the T-lever whose center stern is operated upon by an adjustable crank pin adapted to either hold said lever in a fixed position or to vibrate it and the rods which connect the limbs of the T-lever to the said journal boxes, and move the latter in opposite directions when the T-lever is vibrated, 7th. The combination of the bed, the presser bar the lever and slide bars for supporting the presser bar, and the cam and spring acting adversely on said lever 8th. The duplex clamp composed of a yoke, carrying two pairs of spring tongs, and an adjustable wedge frame for simultaneously closing said pairs of tongs, 9th. The combination of the feed bar and the duplex clamp, 10th. The combination of the feed bar a clamp for securing a stile thereto the side guide of the stile, and the friction lever for pressing on the stile 11th. The combination of the cutter spindle, the bearing block or the lower end thereof, the adjustable lifter rod and lifting cam.

#### No. 8697. Improvements on Circular Saws.

(Perfectionnements aux scies circulaires.)

Donald B. McRae, Bay, Mich., U. S., 25th April, 1878, for 5 years.

Claim.—1st. The toothed ring B or B' attached to a centro disc or body-plate A of not greater thickness than the toothed ring; 2nd. A saw com-