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INVENTIONS PATENTED.

NOTE.—Patents are granted for 18 years. The term of years for which the fee has been paid, is given after the date of the patent.

No. 41,782. Machine for Working Wood.

(Machine à travailler le bois.)

Honestus Morton Albee, Newark, New Jersey, U.S.A., 2nd February, 1893; 6 years.

Claim.—1st. In a carving and routing machine, the combination, with the pivotally jointed and horizontally movable arm *b*, of a vertically movable shaft *f*, and its rotary tool *g*, a guide rod *b*¹¹, attached to the said arm, a sliding carriage for said guide rod, a track for said carriage adapted to be secured to a table or bench, a plate *b*¹³, controlling the vertical movement of the tool shaft, and a rod *b*¹⁵, secured to the said plate, and having a tracing point *b*¹⁹, arranged thereon, all said parts being arranged and adapted to operate, substantially as and for the purposes set forth. 2nd. In combination, in a carving and routing machine, a bracket or support *a*¹, adapted to be secured to a fixture or frame, and having a pulley shaft *a*², and an arm section *b*¹, pivoted on said pulley shaft, an arm section *b*³, having a vertically adjustable section *b*⁴, arranged thereon, a tool shaft *f*, and the tool *g*¹, and means for rotating said tool, and an intermediate arm section *b*², having a pivotal connection with both section *b*¹ and section *b*³, and pulley shafts *a*³, *a*⁴, said pulley shafts being parallel with the tool shaft, all substantially as and for the purposes set forth. 3rd. In combination, with the horizontally movable and pivotally sectional arm *b*, having at the outer end thereof a rotary tool shaft and tool, and means for transmitting rotary motion to the same, a guide rod for directing the arm horizontally, and a tracing point *b*¹⁹, and its carrier connected with and controlling the vertical movement of the said rotary tool shaft, substantially as and for the purposes set forth. 4th. In combination, with the horizontally movable and sectional arm having belts and pulleys for transmitting power, and a rotary tool shaft and its carving tool, a plate *b*⁸, arranged on the outermost section of said arm, and providing bearings for a guide rod *b*¹¹, and for a vertically sliding plate *b*¹³, a guide rod *b*¹¹, arranged to slide in bearings of a sliding carriage *h*, a track for said carriage, a vertically sliding plate *b*¹³, having a connection *b*¹⁴, adapted to work in or with a sleeve or portion *b*¹⁶, of the pulley *f*¹, a rod *b*¹⁵, extending horizontally from said sliding plate, and having a tracing point, all said parts being arranged and combined, substantially as set forth. 5th. In a wood working machine, substantially as described, the combination, with the horizontal movable and pivotally jointed arm carrying a rotary cutter, and means for operating the same, of a guide rod connecting with said arm, a sliding carriage providing bearings for said guide rod, and made in parts, one pivoted on the other in the line of said guide rod *b*¹¹, and means for setting one of said parts in its relation to the other, substantially as and for the purposes set forth. 6th. In combination, in a wood carving or routing machine, with a horizontally movable arm constructed in a series of pivoted sections, and carrying a vertically movable rotary cutter,

and means for operating the same, of a guide rod and a tracing tool connecting with and controlling the vertical movement of the said rotary cutter, and a weight *l*, counterbalancing the weight of said cutter and its carrying shaft, substantially as and for the purposes set forth. 7th. In combination, in a wood carving or routing machine, substantially as herein described, a horizontally movable and pivotally jointed arm having at its end a rotary cutter and its carrying shaft *f*, a pulley *f*¹, secured to said shaft, and having at one end thereof a grooved collar *b*¹⁵, having a shank *f*¹⁴, extending through a perforated plate *f*¹⁶, of said pulley, and a nut fastening said collar to said pulley but allowing an independent movement of the latter, substantially as set forth.

No. 41,783. Machine for Working Wood.

(Machine à travailler le bois.)

Honestus Morton Albee, Newark, New Jersey, U.S.A., 2nd February, 1893; 6 years.

Claim.—1st. The improved wood working machine, combining therein, the vibrating arm *d*, carrying at the end thereof a rotary routing or carving tool, and means for operating said tool, a screw shaft controlling the movement of said arm, and a lathe arranged below the plane of movement of said vibrating arm, a train of gearing connecting said lathe and screw shaft, and an adjustable plate or frame, *k*⁹, carrying at one end a wheel *k*³ of said train and at the other wheels *k*¹, and *k*², and means for holding said frame stationary, substantially as set forth. 2nd. The improved wood working machine, combining a jointed arm carrying a routing or carving tool, and means for operating said tool, a screw shaft controlling the movement of said arm, a lathe and a train of gearing embracing adjustable wheels for reversing the movement of the lathe in its relation to the screw shaft, substantially as and for the purposes set forth. 3rd. The improved wood working machine, combining a jointed arm carrying rotary and vertically movable routing tool, a screw shaft, and its carriages connected with said jointed arm, a pattern *4*, a tracing tool and connections governing the vertical movement of the vertically movable routing tool, a lathe and gearing whereby the lathe and screw shaft are turned together, substantially as set forth. 4th. The combination, in a work working machine with the jointed arm and its routing tool, and means for operating the same, a lathe, screw shaft, and a carriage connected with and operating the said arm, gears transmitting movement from the screw shaft to the lathe and a gauge *p* *q*, all arranged and adapted to operate, substantially as set forth. 5th. In combination, in a wood working machine the jointed arm and its routing tool and means for operating the same, a lathe and screw shaft and gearing transmitting motion from one to the other, a graduated disc *p* on the centre *j*, and a fixed index *q*, all said parts being arranged and operating, substantially as and for the purposes set forth. 6th. In combination with the screw shaft, lathe carriage *k*¹, jointed arm and its tool and means for connecting and operating the same, of a rest *s*, arranged on an adjustable stud *v* fixed upon the table or bed plate, substantially as and for the purposes set forth. 7th. In combination, in a wood working machine a lathe, shaft, carriage, and jointed arm and its tool, and means for connecting and operating the same, substantially as set forth, a V-shaped heat serving as a rest for the stick and having a leg *u*, adjustably secured to a stud *v*, of a bed plate, substantially as set forth. 8th. In combination with jointed arm and its rotary tool and means for operating the same, a screw shaft, a carriage *k*¹ arranged on a track *h*², and connected with said arm and provided with a slotted arm *k*¹², clamp *k*²⁰, and connections engaging and controlling the said jointed arm and its tool, substantially as set forth. 9th. In combination with the jointed or sectional arm having a vibrating movement and a rotary tool and means for operating said tool, a lathe and screw