

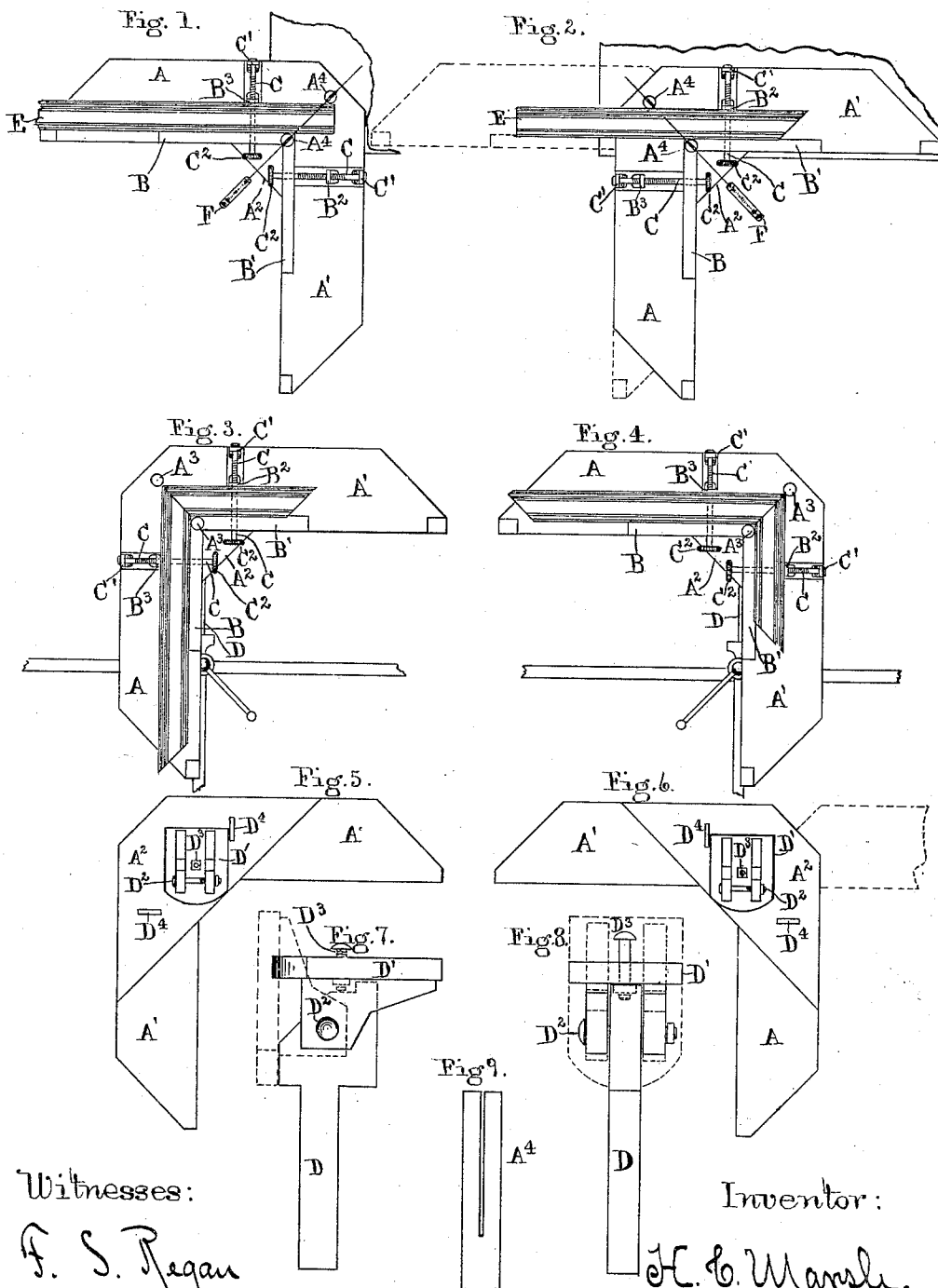
(No Model.)

H. C. MARSH.

COMBINED MITER BOX AND PICTURE FRAME CLAMP.

No. 408,248.

Patented Aug. 6, 1889.



Witnesses:

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UNITED STATES PATENT OFFICE.

HORACE C. MARSH, OF ROCKFORD, ILLINOIS.

COMBINED MITER-BOX AND PICTURE-FRAME CLAMP.

SPECIFICATION forming part of Letters Patent No. 408,248, dated August 6, 1889.

Application filed October 27, 1888. Serial No. 289,327. (No model.)

To all whom it may concern:

Be it known that I, HORACE CLARENCE MARSH, a citizen of the United States, residing at Rockford, in the county of Winnebago and State of Illinois, have invented a certain new and useful Improvement in Combined Miter-Boxes and Picture-Frame Vises, of which the following is a specification.

My invention relates to a combination device for holding picture-frame moldings of all sorts and sizes while the same are being mitered and nailed together to form picture-frames; and it consists of certain new and useful constructions and combinations of parts, hereinafter described, and pointed out in the claims.

Referring to the accompanying drawings, which form a part of this specification, Figure 1 is a plan view of my invention, holding a piece of molding in proper position to have one end thereof mitered. Fig. 2 is a like view of the same, turned one-fourth of a revolution, as indicated by the dotted lines, to be severed and again mitered. Figs. 3 and 4 are views of the same turned perpendicularly downward, like a table-leaf, so that the end piece of the incomplected frame shown may be nailed to the side piece thereof, and vice versa. Figs. 5 and 6 are views of the under side of my invention with parts removed therefrom. Figs. 7, 8, and 9 are views, in detail, of parts, to be fully described hereinafter.

Like letters of reference indicate corresponding parts throughout the several views.

A A' are pieces of any suitable material, lying in the same plane at right angles to each other, and securely joined together by their inner ends to form the miter-box.

A² is a turn-table firmly secured to the under side of the miter-box.

A³ are sockets adapted to admit removable saw-guide pins A⁴.

B B' are vise-jaws integral or rigidly connected with the miter-box A A' and projecting from the upper side of the latter about three-eighths of an inch.

B² B³ are movable vise-jaws, having horizontal cylindrical threaded openings extending through the same.

C are horizontal screws for operating the

jaws B² B³, through which they pass. The screws C are mounted in the bearings C', and in the material composing the miter-box.

C² are circular thumb-wheels having their peripheries milled for operating the screws C.

D is a standard, which may be inserted into a vertical socket in a work-bench or other sufficiently stable object, or it may be held in a vertical position by means of a vise, as shown in Figs. 3 and 4.

D' is a horizontal bracket, jointed by means of the bolt D² to the upper end of the standard D, and capable of being made to assume a vertical position, as indicated by dotted lines in Figs. 7 and 8. The turn-table A² is pivoted to the upper side of the bracket D' by means of the vertical bolt D³. The stops D⁴ allow the turn-table A² and the parts attached thereto to turn but one-fourth of a revolution.

In order to operate my invention most advantageously, after securing the standard D in a vertical position in any desired manner, the miter-box and vises being in a horizontal position, I put a piece of molding E into one of the vises B B³ and miter the same by means of a saw F. I next release the molding and turn the miter-box one-fourth of a revolution to the position shown in Fig. 2, then secure the molding in the vise B' B³ and cut the second miter in the same manner as before. After preparing in like manner the remaining parts to compose a frame, take out the saw-guide pins A⁴, turn the miter-box downward to a vertical position, as shown in Fig. 3, nail the end piece to its side piece at the miter-joint, next turn the miter-box one-fourth of a revolution, as shown in Fig. 4, and nail the side piece to its end piece. Proceed in like manner with the other side and end pieces and joints until the frame is completed.

I claim and desire to secure by Letters Patent—

1. In combination, a standard, a horizontal bracket jointed to the upper end thereof, as shown, and capable of being turned perpendicularly downward, a turn-table pivotally mounted upon said bracket, and a miter-box secured to said turn-table, substantially as described, and for the purpose specified.

2. The herein-described combination miter-box and picture-frame vise, consisting essentially of a standard, a horizontal bracket jointed to the upper end thereof and capable
5 of being turned perpendicularly downward, a turn-table pivotally mounted upon said bracket, as shown, and a miter-box rigidly

secured to said turn-table and provided with saw-guide pins and vises, substantially as described, and for the purpose set forth.

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Witnesses:

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