

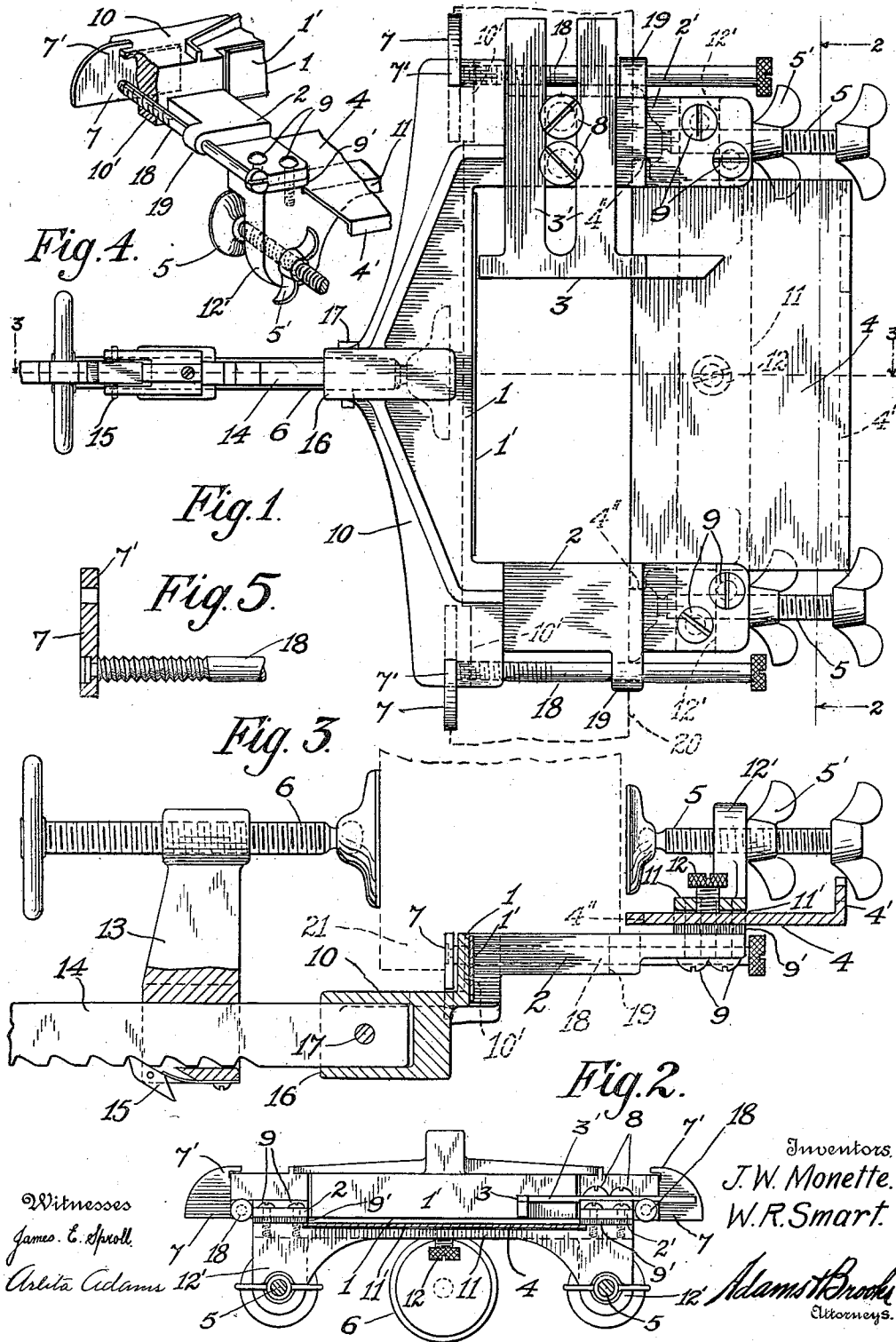
J. W. MONETTE & W. R. SMART.

MORTISE GUIDE.

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990,452.

Patented Apr. 25, 1911.



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# UNITED STATES PATENT OFFICE.

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## MORTISE-GUIDE.

990,452.

Specification of Letters Patent.

Patented Apr. 25, 1911.

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*To all whom it may concern:*

Be it known that we, JOHN W. MONETTE and WILLIAM R. SMART, citizens of the United States of America, and residents of the city of Seattle, in the county of King and State of Washington, have invented certain new and useful Improvements in Mortise-Guides, of which the following is a specification.

The present invention pertains to a device for defining on doors and frames the size and depth of butt hinge seats, and it consists in an improved appliance embodying a novel combination of guides whereby the butting chisel may be guided in producing the finishing cuts.

With this object in view our invention resides in the features of construction, arrangements and combinations of parts, hereinafter described and succinctly defined in our annexed claims, reference being had to the accompanying drawing, wherein:

Figure 1 is a plan of our invention in such form as now preferred by us. Fig. 2 is a longitudinal section on line 2—2 of Fig. 1. Fig. 3 is a transverse section on line 3—3 of Fig. 1. Fig. 4 is a fragmentary perspective of one end of the device, and Fig. 5 is a sectional detail of one of the intermediate clamping members showing the swivel connection with its adjusting screw.

Our improved device comprises a side guide, as 1, opposite end guides, as 2, 3 and a bottom guide, as 4. Combined with these guides are oppositely disposed clamping members 5, 5 and 6, which are employed to secure the device in position on a door, and intermediate members, as 7, 7 which serve in conjunction with member 6 to secure the device to the door frame or casing.

Guide 1, as shown, comprises an angular flange extension of a plate body 10 formed integral with the end guide 2 and with a similar end part 2' wherein a suitable guide way is provided for stem extensions 3' of guide 3, which extensions are engaged by clamping screws 8 seated in bar 2'. Connected to the inner side surface of flange 1 is a facing strip 1' of suitable material to protect the edge of the chisel in making transverse cuts.

Guide 4 is conveniently in the form of a rectangular plate slidably fitting in a cross channel 11' of a side bar 11 which is connected by screws 9 to the end parts 2, 2' but held in spaced relation to the work faces of

said parts by interposed shims, as 9', which overlap the adjacent edge portions of the plate.

The shims 9' are equal in thickness to the depth of the seat to be cut and they are provided with openings for the screws 9 which extend through respective apertures in the outer extremities of the end parts 2, 2' and are seated in screw threaded holes provided in bar 11, which bar is also provided with a screw threaded aperture for a set screw 12 which serves to secure plate 4 in adjusted positions, as will be later understood.

Plate 4 is provided with an angular flange 4' which extends along its outer edge and serves as a finger hold in adjusting the plate relatively to the side guide 1. This plate is further provided at its inner edge with end extensions or stops 4'', 4'' which are adapted to engage the end portion of bar 11 and thereby prevent accidental displacement of the plate.

The clamping members 5, 5, as shown, consist of ordinary clamp screws which are seated in lugs 12', 12' of bar 11 and provided with locking nuts 5', 5', while member 6 is a similar screw seated in an arm 13 which is slidably mounted on a toothed bar 14 and carries a spring pressed dog 15 arranged for engagement with the teeth of bar 14 to hold the arm from outward movement. The inner end portion of bar 14 is seated in a transversely disposed socket 16 of body 10 and provided with a suitable aperture for a keeper in the form of a pin 17 which extends through corresponding apertures provided in the side walls of the socket. The members 7, 7 are in the form of elongated plates which extend beneath respective end portions of body 10 and are provided with angular guiding portions 7', 7' which project over the outer surface of said body. These plates have swivel connection with respective adjusting screws 18, 18 which are seated in angular extensions 10', 10' of body 10, and journaled in supporting lugs 19, 19 provided on the end parts 2, 2'.

To adjust the device the screws 8 and 12 are loosened and the guides 3 and 4 adjusted to space them from the guides 2 and 1 respectively in accordance with the length and width of the seat to be cut. The screws 8 and 12 are then tightened and the device applied, as indicated in Fig. 1, to the edge of the door, as 20, with the inner edge of guide 4 against the side surface from which

the seat is to extend. The screws 5, 5 and 6 are then adjusted to clamp the door and thereby secure the device in position while working out the seat. With the device in this position the butting chisel is guided, by application of its side surface to the several guides, in finishing the side, bottom and end surfaces of the seat.

Before removing the device from the door the screws 18 are turned to set the members 7 with their outer faces just beyond the adjacent side surface of the door. The screws 5, 5 and 6 are now loosened and the device transferred to the casing where it is applied, as indicated in Fig. 3, with the members 7 against the jamb stop 21. Screw 6 is then adjusted to give it bearing against the frame or casing and the seat is then worked out in the jamb in the same manner as on the door.

Having thus described our invention what we claim as new and desire to secure by Letters Patent of the United States of America, is:

1. A mortise defining device comprising a frame, a side guide thereon arranged for guiding the cutter in the formation of the side wall of the mortise, and a bottom guide on said frame, said bottom guide being set at an angle to said first named guide and to one side thereof, whereby it can guide a cutter for movement toward the same in the formation of the bottom wall of the mortise.

2. A mortise defining device comprising a frame, a side guide thereon for defining the side cut of the mortise, and a bottom guide on said frame set at an angle to said first named guide and supported for movement toward and from the same.

3. A mortise defining device comprising a frame, side and bottom guides on said frame, said guides being spaced and set at an angle relatively to one another to guide the cutter in producing cuts in the formation of the side and bottom walls of the mortise, and means for securing said frame in position.

4. A mortise defining device comprising a frame, end guides thereon, an intermediate side guide, and a bottom guide opposing said side guide, said guide being to one side of the plane of said bottom guide.

5. A mortise defining device comprising a frame, end guides thereon one of which is adjustable toward and from the other, an intermediate side guide, and a bottom guide opposing said side guide, said bottom guide consisting of a plate slidably supported on said frame and being overlapped by said adjustable end guide.

6. A mortise defining device including a frame provided with a side guide, opposed clamping members on said frame for securing the same in position, and an intermediate clamping means supported on said frame for adjustment toward and from said side guide.

7. A mortise defining device including a frame provided with a side guide, and setting means for said side guide adjustably supported on said frame for projection rearwardly of the working face of said guide.

8. A mortise defining device including a frame provided with a guide for guiding the mortise cutter in the formation of a side wall of the mortise, setting means for said guide adjustably supported on said frame for projection rearwardly of the working face of said guide, and means for securing said frame to the work.

9. A mortise defining device including a frame provided with a guide for defining the side cut of the mortise, setting means for said guide adjustably supported on said frame for projection rearwardly of the working face of said guide, and securing means opposing said setting means.

Signed at Seattle, Washington this 4<sup>th</sup> day of May 1910.

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