

No. 771,753.

PATENTED OCT. 4, 1904.

D. STANLEY.
AUTOMATICALLY ACTING SUPPORT FOR DOORS.

APPLICATION FILED APR. 27, 1904.

NO MODEL.

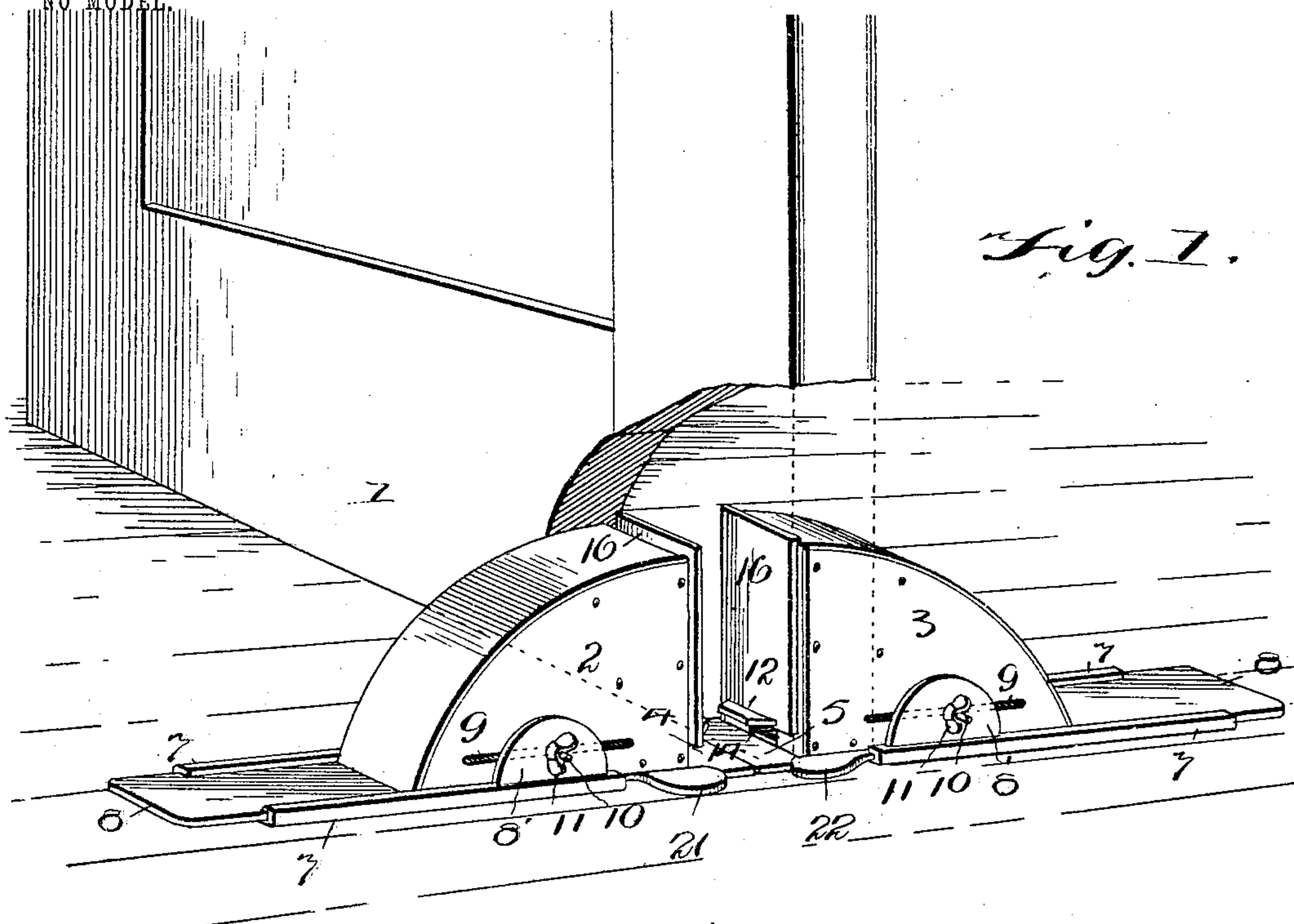


Fig. 1.

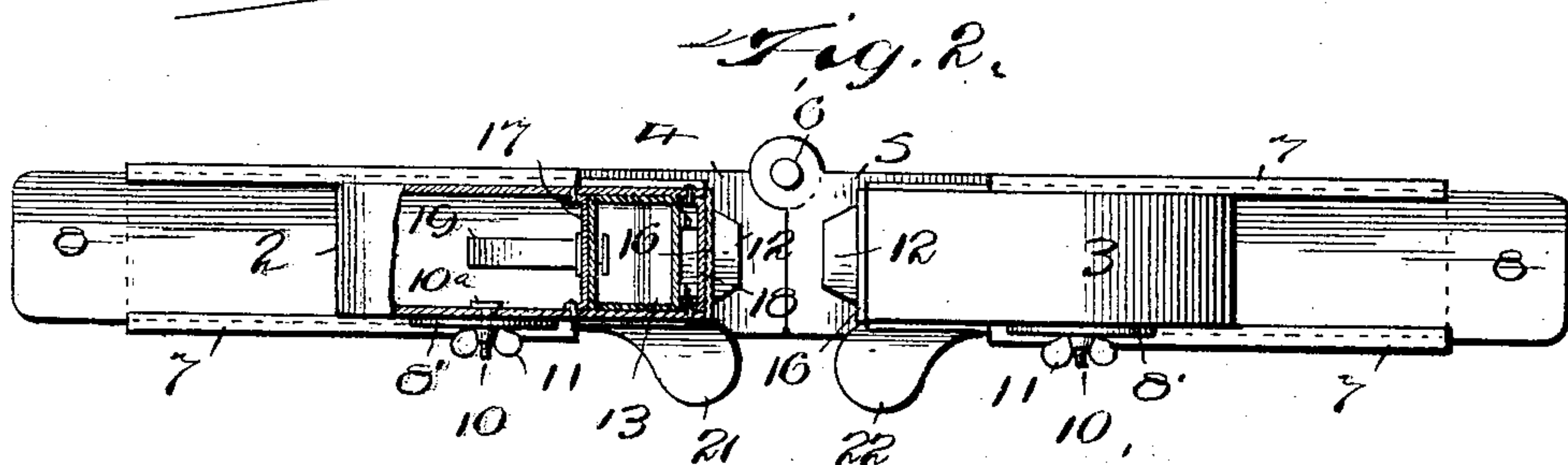


Fig. 2.

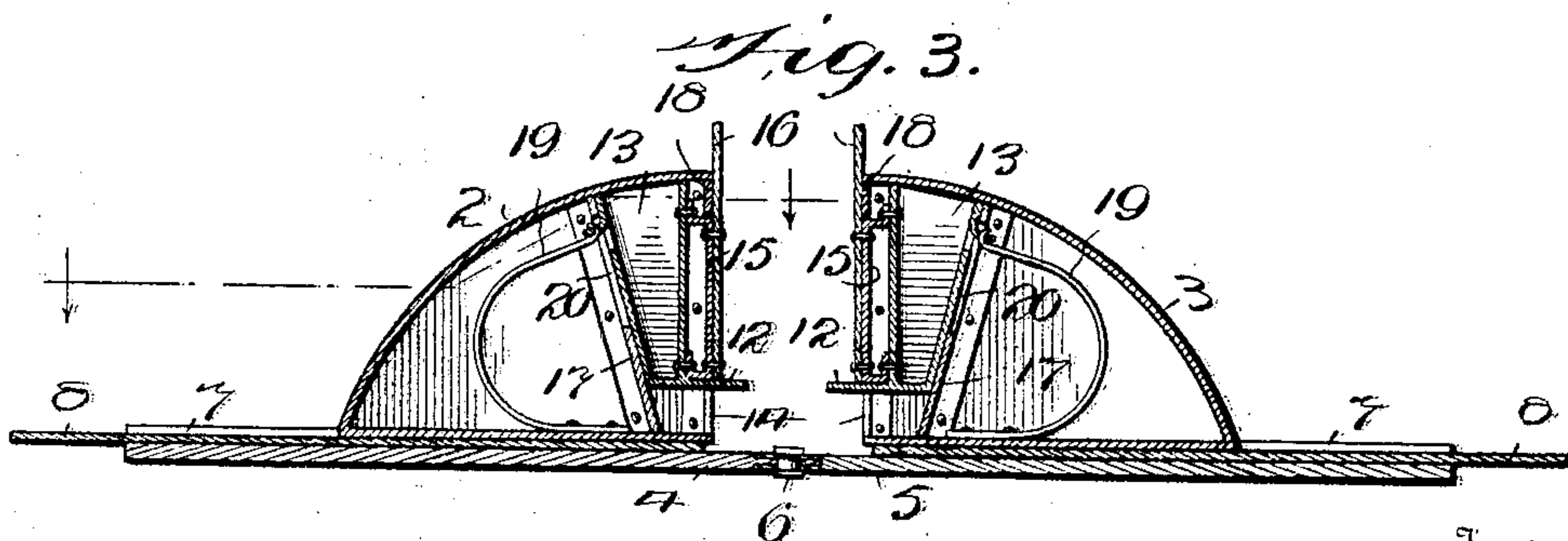


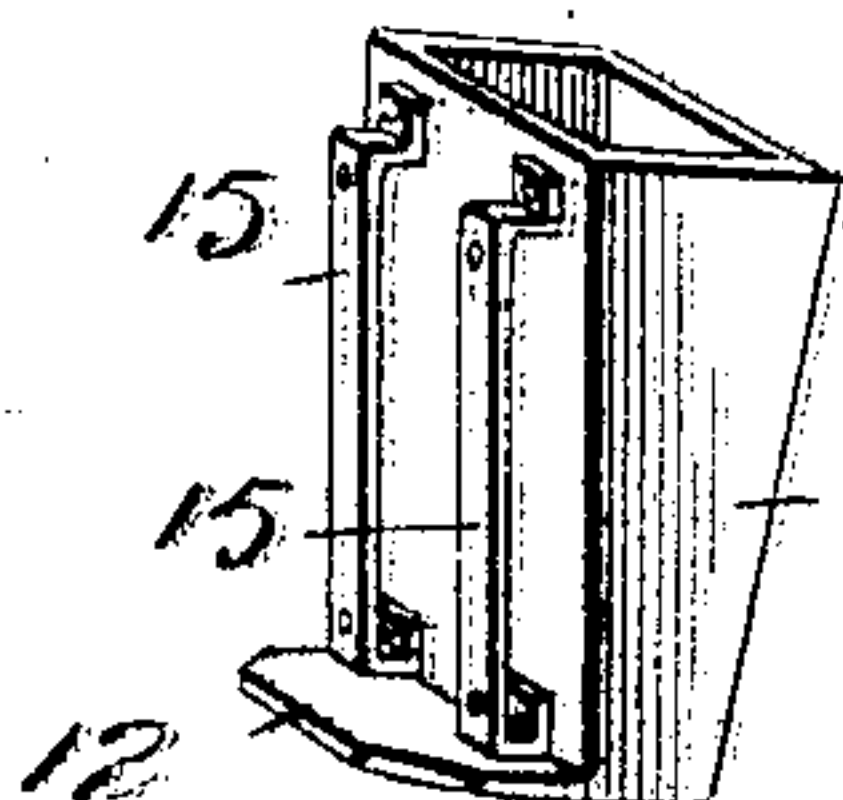
Fig. 3.

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UNITED STATES PATENT OFFICE.

DANIEL STANLEY, OF ELK CITY, OKLAHOMA TERRITORY.

AUTOMATICALLY-ACTING SUPPORT FOR DOORS.

SPECIFICATION forming part of Letters Patent No. 771,753, dated October 4, 1904.

Application filed April 27, 1904. Serial No. 205,147. (No model.)

To all whom it may concern:

Be it known that I, DANIEL STANLEY, a citizen of the United States, residing at Elk City, in the county of Roger Mills, Oklahoma Territory, have invented certain new and useful Improvements in Automatically-Acting Supports for Doors; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an automatic clamp or supporting device for holding a door in a desired adjusted position for fitting the locks thereto or for placing the hinges thereon, and thus operatively mounting the door in place; and my invention consists of certain novel features of combination and construction of parts, the preferred form whereof will be hereinafter clearly set forth, and pointed out in the claim.

The main object of my invention, among others, is to provide a support for doors of the character specified which will automatically engage the edge of the door and tightly secure the same until the door is raised out of engagement with the support.

A further object of my invention is to provide means for automatically pressing a certain part of my support against a contiguous part of the door, and thereby hold said door securely in an adjusted position.

Other objects and advantages will be hereinafter fully set forth, and illustrated in the accompanying drawings, which are made a part of this application, and in which—

Figure 1 shows a perspective view of my invention complete and illustrating by dotted lines the position of the door when supported by my combined clamp and support. Fig. 2 is a top plan view of my automatic clamp and support, a part of which is shown in section. Fig. 3 is a longitudinal vertical section of my combined clamp and support. Fig. 4 is a perspective view of one of the clamping members carried by each of the jaws.

In order to conveniently refer to the various details of my invention and cooperating

accessories, numerals will be employed, the same numeral applying to a similar part throughout the several views.

Referring to the numerals on the drawings, 1 designates a door which has been properly trimmed and ready to be hung or supported upon its hinges, and it therefore becomes desirable to support the outer edge thereof at a proper height whereby the door will not sag when the hinges are secured in place. I therefore locate my improved supporting device so that the two jaws, as indicated by the numerals 2 and 3, will receive a part of the door between them. Said jaws are each carried by a suitable base-section, as indicated by the numerals 4 and 5, said base members being hinged together at their meeting corners, as shown by the numeral 6 in Fig. 2.

It will be observed that each of the base members 4 and 5 is provided with the upwardly-directed guideways or flanges 7, which are designed to receive between them the plates 8, each of said plates forming the bottom of the jaws 2 and 3, thereby rendering said jaws longitudinally movable, whereby said jaws may be brought toward each other or separated, as desired. I also provide the ears 8', each located at the inner end of the guideways 7 and on the same side of the base members 4 and 5, as clearly shown in Fig. 2, said ears serving as a shoulder or stop for limiting the inward and outward movement of the jaws 2 and 3, inasmuch as it will be observed that each of said jaws is provided with a horizontally-disposed slotted opening 9, designed to cooperate with the bolt 10, whereby when the thumb-screw 11 is turned the head 10^a of the bolt 10 will be loosened from engagement with the edges of the slot 9 or brought tightly in contact therewith, as desired, thereby permitting the adjustment of the jaws to be effected as may be deemed necessary to enable them to receive between them doors of any preferred thickness.

In order to insure that the door will be tightly clamped, I provide the brackets 12, upon which the edge of the door is designed to be supported. The brackets 12, it will be

observed, are connected to and form an extension of the wedge-like members 13, a vertical slot 14 being formed in the inner face of each of the jaws 2 and 3 to receive the projection 15 and to which is attached the vertically-disposed plates or clamping-faces 16, designed to come directly in contact with a part of the door interposed between the jaws. The wedge-like members 13 play loosely upwardly and downwardly in a suitable opening provided in the jaws 2 and 3 between the walls 17 and 18, the said slots 14 being formed in said wall 18, as clearly shown in Fig. 3. Said wedge-like members 13 are held normally upward by means of the springs 19, also very clearly illustrated in Fig. 3.

It will be understood that the wedge-like member 13 may be provided with two of the brackets 15, as shown in Fig. 4, if deemed productive of better results than one bracket disposed in the middle portion of the wedge member, as shown in Fig. 3.

The upper end of the springs 19 reach through a suitable slot 20, formed in the wall 17, and are thus placed in engagement with the wedge members 13, whereby the latter will be disposed normally upward.

I also provide the ear-like extensions or brackets 21 and 22 for each of the jaws 2 and 3, said brackets or extensions serving as a convenient form of handle and also as an extension of the supporting-base.

Having thus described the construction and combination of parts, the operation of my improved supporting device and clamp for doors may be stated to be as follows: It will be understood that the jaws 2 and 3 are to be separated a proper distance according to the thickness of the door to be received between them and the thumb-nuts turned home upon the bolts 10, thereby securely locking said jaws in an adjusted position. The door is then entered between the jaws, when it will rest upon the brackets 12, and the weight of the door, it is obvious, will force said brackets downward and incidentally cause the wedge members 13 to move down against the inclined face of the walls 17, the result being that the contacting plates 16 will be moved outward toward each other and against a contiguous part of the door interposed between the jaws, thereby causing the door to be very tightly clamped by its own weight, it being

understood that the farther the door moves downward the tighter it will be engaged.

It will thus be seen that my improved clamp will be a very desirable instrument for holding a door supported upon one edge while the other edge is being finished and that when one edge is finished the door may be reversed and the finishing process applied to the other edge. By properly adjusting the clamping jaws or housings 2 and 3 the door may be reliably secured in an adjusted position, so that the hinges may be placed in proper position or proper measurements taken to indicate where such hinges shall be located.

It will thus be seen that I have provided a reliably efficient form of combined clamp and support for holding doors, frames, and the like in an adjusted position, and while I have described the preferred combination and construction of parts I wish to comprehend in this application all substantial equivalents and substitutes as may be considered as falling fairly within the scope and purview of my invention.

What I claim as new, and desire to secure by Letters Patent, is—

The herein-described combined supporting device and clamp for holding doors in an adjusted position comprising suitable housing members or jaws 2 and 3; base members therefor 4 and 5, respectively and means to provide for a bodily inward and outward movement of said jaws upon said base members; clamping devices for locking said jaws at an adjusted point; wedge-like members fitting in a suitable chamber within each of said jaws; means to hold said wedge-like members normally elevated; brackets 12 carried by said wedge-base and extending outward through an opening in the face of said jaws whereby said brackets will engage and support the door or frame placed thereon and force the wedge members downward and incidentally clamp the door and reliably hold it in an adjusted position, all combined substantially as specified and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

DANIEL STANLEY.

Witnesses:

JUDD CUSTER,
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