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PATENTED JULY 9, 1907.

F. J. BRITTON.  
DOOR HOLDING CLAMP.  
APPLICATION FILED MAY 12, 1906.

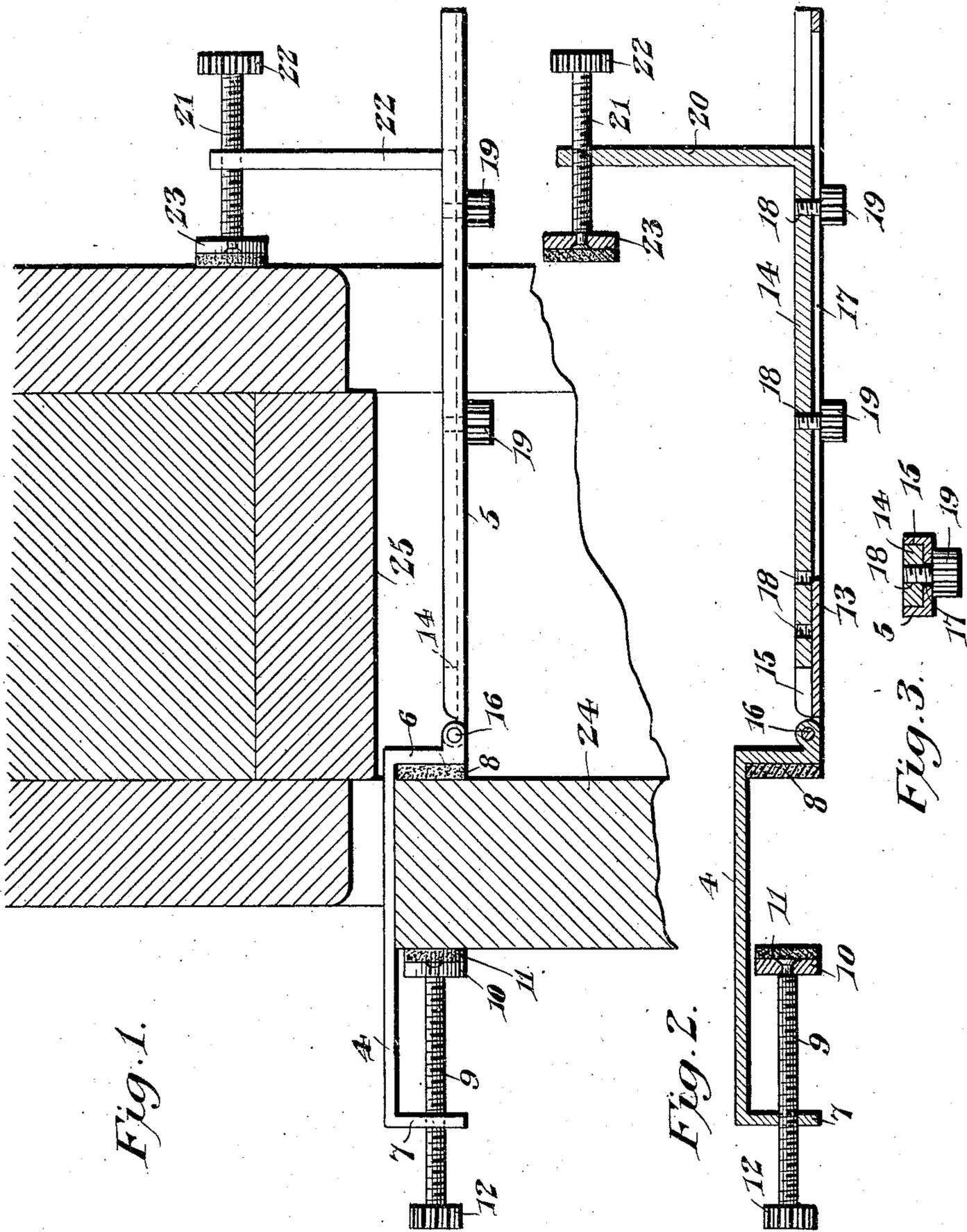


Fig. 1.

Fig. 2.

Fig. 3.

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# UNITED STATES PATENT OFFICE.

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## DOOR-HOLDING CLAMP.

No. 859,800.

Specification of Letters Patent.

Patented July 9, 1907.

Application filed May 12, 1906. Serial No. 316,517.

*To all whom it may concern:*

Be it known that I, FRANCIS J. BRITTON, a citizen of the United States, residing at Brainerd, in the county of Crow Wing and State of Minnesota, have invented a new and useful Door-Holding Clamp, of which the following is a specification.

Doors as they come from the factory are ordinarily slightly larger than the door-ways for which they are intended, and therefore have to be trimmed or dressed down to the proper sizes. The usual practice is to place each door against its particular jamb and scribe the same with the edges of the jambs as a guide. Considerable difficulty is experienced in holding the doors while thus marking them. One of the methods now in common use is to drive a nail in the door, and hold such door by it, but this is objectionable as the nail mars the door, and besides the holding means is insecure, so that the door is liable to shift its position. If not held by a nail, an assistant is employed for holding the door while the same is being scribed, but this is objectionable as it requires the services of two workmen.

The object of the present invention is to provide a simple and novel device, whereby doors of different thicknesses may be securely clamped to door-frames of various thicknesses, and thus held in position during the marking or scribing operations.

The preferred embodiment of the invention is illustrated in the accompanying drawings, wherein:—

Figure 1 is a sectional view through the top of a door casing and door, showing the latter held to the former by the improved device, and said device being shown in elevation. Fig. 2 is a longitudinal sectional view through the structure. Fig. 3 is a cross sectional view.

Similar reference numerals designate corresponding parts in all the figures of the drawings.

In the embodiment illustrated, a draft member is employed, which consists of link elements 4 and 5. The link element 4 comprises a plate having offset terminals 6 and 7, the terminal 6 constituting a bearing shoulder or abutment, and having its inner face cushioned, as shown at 8. An adjustable bearing device is mounted on the other terminal 7. Said device consists of a stem 9, threaded through the terminal 7, and having a bearing head 10 at its inner end, which head is preferably cushioned, as shown at 11. A thumb wheel 12 is secured to the outer end of the stem. By this arrangement, it will be apparent that the bearing head 10 can be adjusted toward and from the bearing shoulder or abutment 6.

The link element 5 consists of slidably associated sections 13 and 14. The section 13 is channeled to form a guide-way 15, and is hinged at one end, as is shown at 16, to the offset terminal 6 of the link 4. It is furthermore provided with a longitudinal slot 17. The

section 14 is slidably mounted in the guide-way 15, and is provided with a series of threaded openings 18, in which are placed thumb screws 19 that pass through the slot 17, and serve to normally hold the sections against relative sliding movement. The section 14 is provided with an offset terminal portion 20, projecting from the opposite side of the draft member to the offset terminals 6 and 7. The terminal 20 is longer than said terminals 6 and 7, and has threaded therethrough an adjusting screw 21, provided at one end with a thumb wheel 22, and at the other with a cushioned head 23.

In using the device, the link element 4 is clamped upon the central upper portion of a door, as 24, the adjustable device 9 permitting its proper engagement with doors of different thicknesses. The sections of the link element 5 are then adjusted to the proper thickness of the door frame, as 25, after which the clamping device 21 is brought into engagement with the opposite side of the same to that which receives the door. The hinging of the link elements together is important for the following reasons: after the element 4 has been clamped upon a door, the element 5 will drop downwardly alongside the door, and thus when the door has been set up, said element 5 can be readily swung upwardly to a position to engage the frame. It will, therefore, be apparent that to accomplish this movement, the elements must have a relative swinging movement in the plane in which both are located. It will be evident that by this simple device, doors may be readily and securely held in position while being marked. The doors so held are not injured or marred, and the services of an assistant are not needed.

From the foregoing, it is thought that the operation, construction, and many advantages of the herein described invention will be apparent to those skilled in the art, without further description, and it will be understood that various changes in the size, shape, proportion, and minor details of construction, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is:

1. A door holding clamp, comprising elements hinged together at their ends, means carried by one side of one element and adjustable longitudinally thereof for securing the elements to a door and permitting the swinging movement of the other element, and casing-engaging means carried by one side of said other element and adjustable longitudinally thereof for holding a door secured by the first mentioned element against a door casing.

2. A door holding clamp, comprising elements hinged together at their ends, relatively adjustable clamping devices carried by one of the elements and adjustable longitudinally thereof for securing said elements to a door and permitting the swinging movement of the other element, and a door-casing engaging device adjustably mounted on

one side of the other element and adjustable thereon toward the first element for holding a door secured by the first mentioned element against a casing.

3. A door holding clamp, comprising elements hinged together at their adjacent ends, means carried by one side of one element and adjusted longitudinally thereof for clamping the same to a door and permitting the swinging movement of the other element, and casing engaging means mounted on the opposite side of the other element and adjusted longitudinally thereof for holding the door secured by the first mentioned element to a door casing.

4. A door holding clamp, comprising elements hinged together at their adjacent ends, relatively adjustable door clamping devices carried by one side of one element for clamping the same to and supporting it on a door, said devices being relatively adjustable longitudinally of the element and permitting the swinging movement of the other element, and a casing engaging device mounted on the opposite side of the other element and adjustable longitudinally thereof for holding a door secured by the first mentioned element against a door casing.

5. A door holding clamp, comprising link elements, a hinge connection between the elements, a threaded door engaging device adjustably mounted on one side of one element and movable toward and from the hinge connection, and a door casing engaging device adjustably located on the other side of the other element and adjustable toward and from the hinge connection.

6. A door holding clamp, comprising hingedly connected link elements, means located on one side of one element for securing said element to a door, said means comprising a shoulder, and a device having a threaded connection with the element and adjustable toward and from the shoulder, and a casing engaging device located on the other side of the other element and having a threaded engagement therewith, said latter device being adjustable toward and from the hinge connection between the links.

7. A door holding clamp, comprising link elements, relatively adjustable door clamping devices mounted on one element, the other element comprising adjustable sections, one of which is hinged to the first mentioned section, means for holding the sections against adjustment, and a

door casing engaging device adjustably mounted on the other section and arranged to engage a casing to hold a door secured by the door-clamping devices against such casing.

8. In a door holding clamp, the combination with a link element having offset ends, one of which constitutes a bearing shoulder, of a bearing device threaded through the other offset end, another link element hinged to one of the offset ends and a bearing device adjustably mounted on said second link element.

9. In a door holding clamp, the combination with a link element having offset ends, one of which constitutes a bearing shoulder, of a bearing device adjustably mounted on the other offset end, another link element hinged to the first mentioned link element and comprising slidably associated sections, one of which is provided with an offset end, and a bearing device adjustably mounted on said latter offset end.

10. In a door holding clamp, the combination with a link element having offset ends, one of which constitutes a bearing shoulder, of an adjustable bearing device threaded through the other offset end and having a head movable toward and from the bearing shoulder, another link element comprising slidably associated sections, one of which is hinged to one of the offset ends of the first mentioned link elements, the other section having an offset terminal, a bearing device threaded through the offset terminal, and means for holding the sections against their sliding movement.

11. A door holding clamp, comprising a link element having an offset portion constituting a bearing shoulder, an adjustable bearing device mounted on the link element and cooperating with said shoulder, another link element hinged to said offset portion, and a bearing device mounted on the latter link element.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

FRANCIS J. BRITTON.

Witnesses:

MILTON MCFADDEN,  
E. Z. BURGOYNE.