No. 611,340. Patented Sept. 27, 1898.

O. M. SMITH.

CLAMPING DEVICE FOR SUPPORTING DOORS, &c.

(Application filed Oct. 29, 1894. Renewed Dec. 4, 1896.)

(No Model.)

Fig. 1.

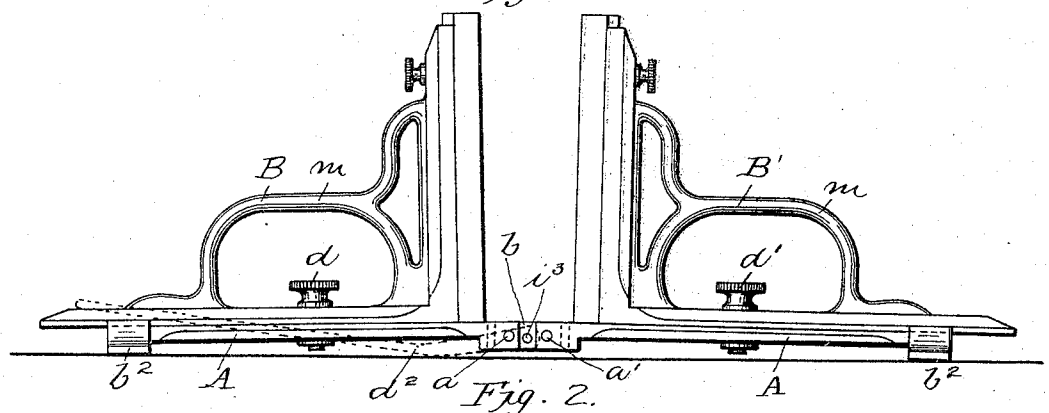


Fig. 2.

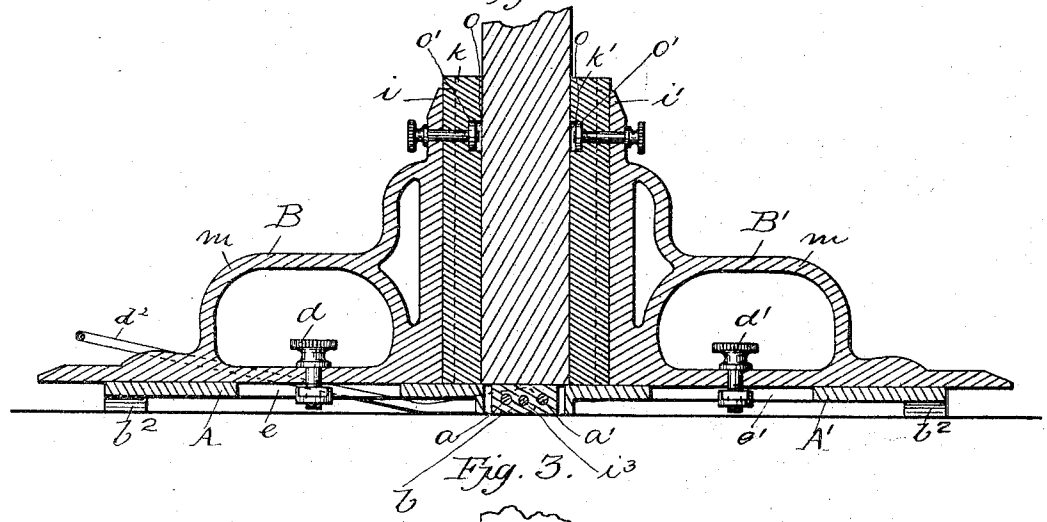
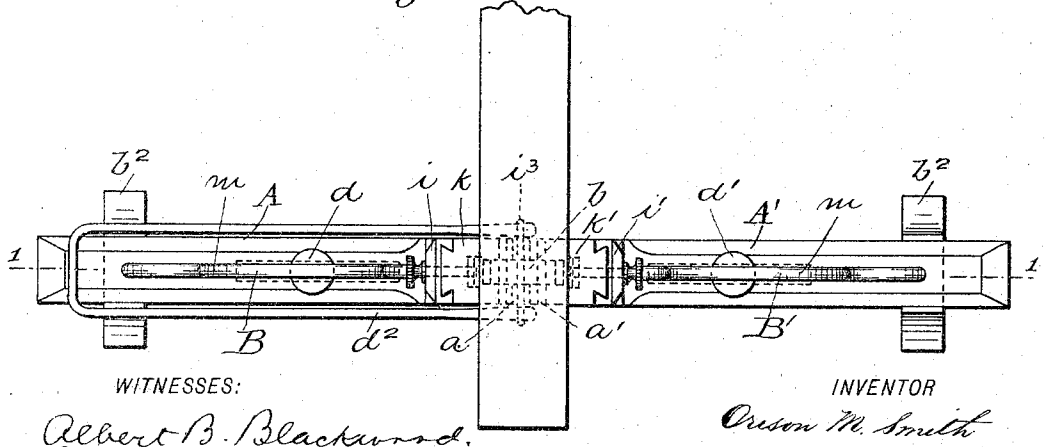


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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CLAMPING DEVICE FOR SUPPORTING DOORS, &c.

SPECIFICATION forming part of Letters Patent No. 611,340, dated September 27, 1898.

Application filed October 29, 1894. Renewed December 4, 1896. Serial No. 614,522. (No model.)

To all whom it may concern:

Be it known that I, ORISON M. SMITH, a citizen of the United States, residing at Duluth, in the county of St. Louis and State of Minnesota, have invented certain new and useful Improvements in Clamping Devices for Supporting Doors, &c.; and I do 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 a device for supporting a door, window-sash, plank, and similar objects in an upright position, and more especially intended to support a door so as to readily enable an operator to plane or true the edges thereof, to assist in properly hanging the door, to attach or detach the hinges, &c.

The primary object of my invention is to construct a simple, economical, reliable, and durable device which will materially assist a carpenter or operator in performing the functions necessary in hanging, planing, or attaching hinges to and detaching them from a door without other or additional assistance.

A further object of my invention is to provide a device which will clamp and firmly secure the object to be operated upon in an upright position, yet at the same time readily release the object when desired; and a still further object is to provide a hinged base, clamping-jaws, and adjusting devices of such a character as will readily perform the functions intended to be performed by said devices.

The above-mentioned objects and such others as will appear from the ensuing description and be pointed out in the claims are attained by the device illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the device embodying my invention; Fig. 2, a sectional elevation of the same, taken on the line 1 1, Fig. 3, illustrating the object in its clamped position; and Fig. 3 is a plan view of my improved device and the object clamped or held thereby.

Referring to the drawings, A A′ represent the base portions, constructed in any suitable or desirable manner, provided with feet or supports b^2, the inner ends of the said base portions being suitably hinged or pivoted together through the medium of pins or rods *a a′* and a connecting member or suitable link *b*, as clearly shown in the drawings.

B B′ illustrate sliding or adjustable frames secured to the base portions and capable of being readily adjusted thereon through the medium of the adjusting devices *d d′*, adapted to the said frames, and the slotted portions *e e′* of the base. The adjustable frames are provided with upright dovetailed portions *i i′*, to which are fitted blocks *k k′*, of rubber or other suitable material, forming the clamping jaws or portions, between which the object to be operated upon or utilized is firmly held or securely clamped in an upright position, as shown in Fig. 2. The upper portion of each block is provided with a recess *o*, to which is adapted a nut *o′*, fitted on the screw-threaded end of a bolt or thumb-screw for the purpose of securely holding the blocks *k k′* in position.

To the connecting member or link *b* I attach, by means of a pin or rod i^3, a U-shaped lever d^2 for the purpose of readily throwing the clamping-jaws apart when it is desired to remove the object from the said jaws, thereby causing the jaws to assume a position substantially as illustrated in Fig. 1 of the drawings.

When not in use, the lever rests upon the base portion. The inner ends of the base portions are slightly elevated and the jaws normally open and inclined in an outwardly direction in order to readily receive the door or other object held thereby. As soon, however, as the object to be operated is inserted between the jaws and caused to rest upon the jointed or inner end of the base portions and upon the connecting link or member the weight of the object will cause the inner ends of the jointed or hinged base and connecting-link to be depressed, the jaws to assume a vertical position, and the lever to rise and remain slightly above the base, so that when it is desired to throw the jaws apart and remove the object from between the same it is only necessary for the operator to depress the ends of the lever by hand or foot, thereby causing the inner ends of the base and the connecting-link to be slightly elevated and thus force the jaws apart.

It will be seen that the frames B B′ are provided with handles or handholds *m* in order to permit the operator to easily shift the said frames to the right or left and at the same time operate the adjusting devices *d d′*.

It will be understood that slight changes from the exact detailed construction of my device as hereinbefore referred to may be resorted to without departing from the spirit of my invention.

Having described my invention, what I desire to claim and secure by Letters Patent is—

1. A clamping device for supporting doors, &c., comprising two base portions, an adjustable and removable clamping-frame mounted upon each of the base portions, and a connecting-link pivotally connecting the base portions, for the purpose set forth.

2. A clamping device for supporting doors, &c., comprising slotted base portions, a connecting-link for pivotally uniting said base portions, slidable and removable frames supported upon said base portions, and adjusting devices connecting the base portions and said frames together, substantially as described.

3. A clamping device for supporting doors, &c., comprising slotted base portions, a connecting-link between the inner ends of said base portions for pivotally uniting the same, adjustable and removable frames provided with upright dovetailed portions adapted to receive the clamping-block, said frames being supported upon the base portions, and adjusting devices connecting said base portions and frames together, substantially as described.

4. A clamping device for supporting doors, &c., comprising base portions, a connecting-link for pivotally uniting the inner ends of said portions, a lever connected to the said connecting-link, adjustable frames supported upon said base, and adjusting devices connecting the base portions and said frames together, substantially as described.

5. A clamping device for supporting doors, &c., comprising slotted base portions, a connecting-link for pivotally uniting the inner ends of said portions, a lever connected to said link, adjustable frames provided with dovetailed portions adapted to receive a clamping-block, said frames being supported upon the base portions, adjusting devices connecting the base portions and frames together, and means for securing the clamping-blocks to the dovetailed portion of the said frames, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

ORISON M. SMITH.

Witnesses:
HENRY CHADBOURN,
MAY F. FULLER.