

A. HOLLMANN.
DOOR ADJUSTING DEVICE.
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933,985.

Patented Sept. 14, 1909.

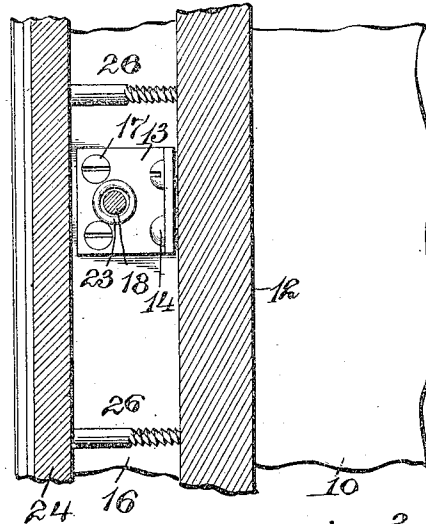
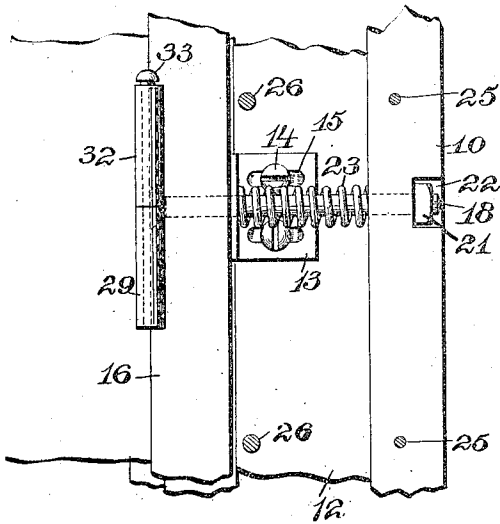
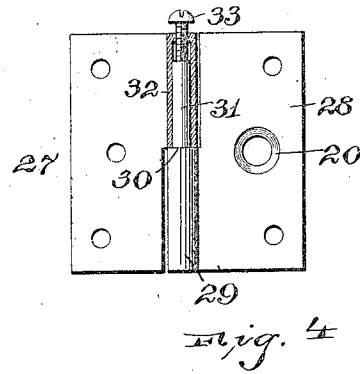
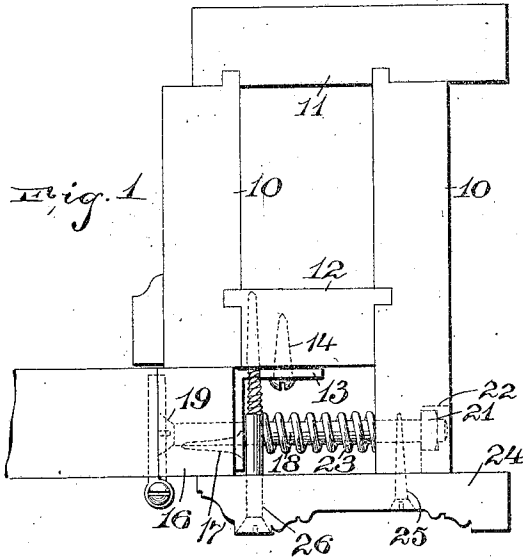


Fig. 2
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UNITED STATES PATENT OFFICE.

ADOLF HOLLMANN, OF MONTCLAIR, NEW JERSEY.

DOOR-ADJUSTING DEVICE.

933,985.

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Application filed February 24, 1909. Serial No. 479,724.

To all whom it may concern:

Be it known that I, ADOLF HOLLMANN, a citizen of the United States, residing at Montclair, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Door-Adjusting Devices; 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, reference being had to the accompanying drawings, and to figures of reference marked thereon, which form a part of this specification.

This invention relates to an improved device for adjusting doors, and is designed to provide means for withdrawing the hinge of the door toward the door casing or permitting it to be drawn partly therefrom so that the fit of the door against the door-frame, opposite to the hinge, can be adjusted. The device also provides means for adjusting the door vertically, and in this way a means is provided for making a door fit a doorway without planing the same, and particularly where the misfit has occurred through the settling of a structure and but slight adjustment is needed. The planing of doors, when they are to be fitted, takes off the varnish and spoils the appearance of the door, and it is to avoid this and also to avoid the necessity of a carpenter's service that this invention is devised.

The invention is illustrated in the accompanying drawing, in which—

Figure 1 is a plan of the device. Fig. 2 is a face view of a door casing with the molding strip removed. Fig. 3 is a section through the frame looking in the direction of the hinge, and Fig. 4 is a modification of the hinge.

The device can be installed in a door casing of usual construction, but I prefer to make the frame out of the parallel strips 10, on the outer side having a board 11 to join them on that end, and on the inner end having a strip 12. To the strip 12 are secured brackets 13 which are right-angled in form and are secured by the screws 14 to the strip 12, these screws passing through the slots 15 in the brackets 13. The brackets are fastened to a door strip 16, being secured thereto by the screws 17. Passing through the door strip 16 and also through the bracket 13 is a bolt 18 which is provided

with the countersunk head 19, which head is preferably passed through the perforation 20 in one of the hinged leaves of the hinge, as will be hereinafter described, this perforation being shown particularly in Fig. 4. The bolt 18 passes into the rear strip 10 and is provided with a nut 21, which nut is fastened in a groove 22 so that it is prevented from turning, and when the screws 14 are unloosened from the bracket so as to allow the brackets 13 to slide, if a screw-driver is used to operate the bolt 18 in one direction, the bolt will screw into the nut and draw the door strip in toward the rear of the casing and relieve any binding of the outer end of the door with the door frame. If the fit is not tight enough, the screw can be turned backward to unscrew it from the nut 21, and the spring 23, which encircles the bolt and bears on one end on the bracket 13 and on the other end on the rear strip 10, forces the strip outward. The screws 14 are normally loose enough to permit the sliding of the brackets. A molding strip 24 is fastened by the screws 25 to the rear strip 10, and the long screws 26 pass through the molding strip and enter the strip 12 so that when the door strip 16 is adjusted by screwing tightly up on the screws 26, the molding strip binds tight against the door strip and assists in holding it in position and makes the parts compact and tight.

To secure a vertical adjustment of the door, I provide a hinge which consists of two leaves 27 and 28, one of which is fastened to the door and the other to the door strip. One of the leaves, as 28, has a post 29 which has a shoulder 30 thereon, beyond which the post has a reduced stem 31, which stem fits up into a socket 32 on the other leaf, which socket is closed at the top. Through the closed top of the socket 32 is arranged a screw 33, and when this is screwed the socket rises up, because the end of the screw rests on the post 31 and thus the leaf 27 is raised, carrying the door with it. When the door is to be lowered, the rotation of the screw 33 the other way will permit the socket 32 to ride down on the post 31, as will be understood.

The device is applicable to any style of door or casing, although it is preferred to use the form shown herein that forms the chamber between the strip 14 and the molding strip 24, with the back strip 10 as means for holding the bolt 18, and in this chamber

the door strip 16 is adapted to be slid back and forth to adjust the door.

Having thus described my invention, what I claim is:—

- 5 1. A door adjuster comprising a casing, right-angled brackets secured to the casing, each bracket having parallel slots therein, screws passing through the slots and into the casing for securing the brackets to the casing in sliding relation, a door strip fixedly secured to the brackets, a bolt passing through the door strip and the bracket and through a portion of the casing, a nut to receive the bolt, a spring bearing on the casing and on the door strip to normally force them apart, a molding strip secured to the casing and bearing on the door strip, screws passing through the door strip and into the casing to cause the molding strip to clamp the door strip, and a door in hinged relation on the door strip.
- 20 2. A door adjuster comprising a casing, right-angled brackets secured to the casing,

each bracket having one of its right-angled portions provided with horizontal parallel slots, screws passing through the slots and into the casing for securing the brackets to the casing in sliding relation, a door strip fixedly secured to the other right-angled portion of the brackets, a bolt passing through each bracket and the door strip and through a portion of the casing, the casing being recessed to receive a nut, a nut in the recess to receive the bolt, a spring bearing on the casing and on the door strip to normally force them apart, and a molding strip secured to the casing and bearing on the door strip.

In testimony, that I claim the foregoing, I have hereunto set my hand this 22nd day of February 1909.

ADOLF HOLLMANN.

Witnesses:

WM. H. CAMFIELD,
E. A. PELL.