(No Model.)

J. WRIGHT.

HINGE.

No. 375,039. Patented Dec. 20, 1887.

Fig. 1.

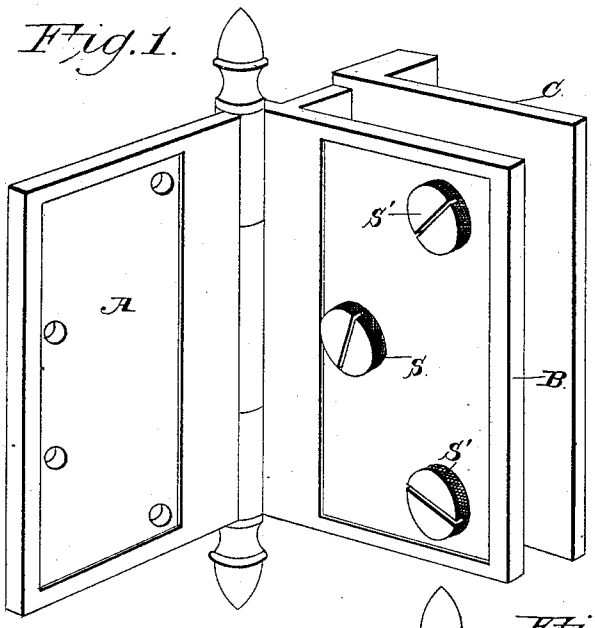


Fig. 4.

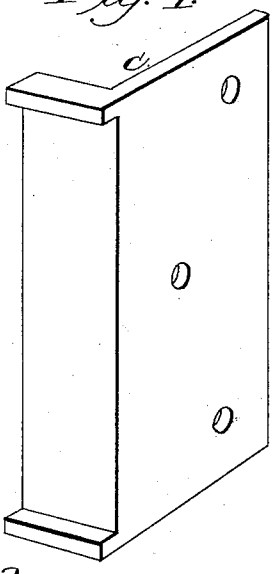


Fig. 2.

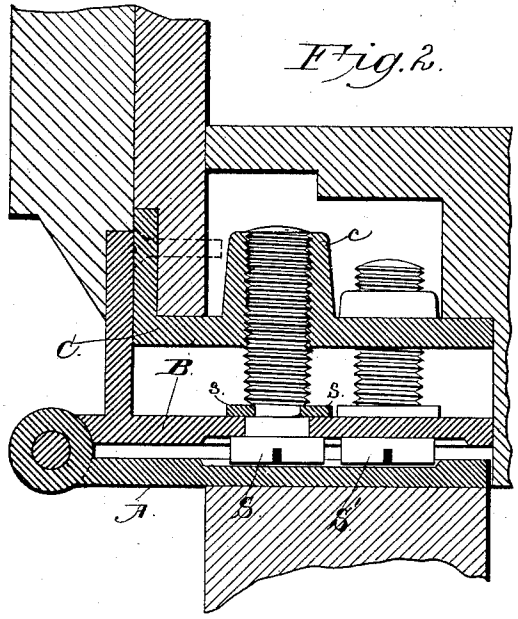
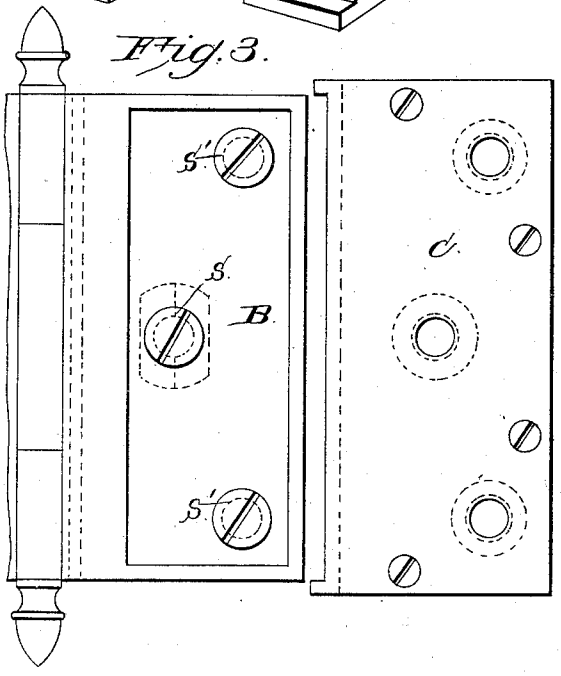


Fig. 3.



WITNESSES

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HINGE.

SPECIFICATION forming part of Letters Patent No. 375,039, dated December 20, 1887.

Application filed May 13, 1887. Serial No. 238,111. (No model.)

To all whom it may concern:

Be it known that I, JACOB WRIGHT, a citizen of the United States, residing at Mitchell, in the county of Davison, Dakota Territory, have invented a new and useful Improvement in Adjustable Hinges, of which the following is a specification.

My invention relates to adjustable hinges; and it consists of an improvement upon the hinge shown and described by my application for Letters Patent filed April 18, 1887, Serial No. 235,235.

The object of my present invention is to provide a hinge which is adapted for use in connection with the heavier class of doors, and which is simple and effective in its construction and operation, strong and durable, easily handled and readily understood, positive in its results, and cheaply manufactured.

It is well known that doors, and especially the heavier constructions thereof, after they have been hung will, in most cases, owing to the expansion and contraction of the jamb or of the doors themselves, or to the settlement of the walls or frame, bind or sag in such a way as to render them difficult to close and to lock when the bolt falls a little below its proper place in relation to the striker. In adjusting a door vertically, as now practiced, a washer is placed upon the hinge-spindle, which also necessitates the removal of the door.

My invention is designed to obviate these difficulties, which are more prevalent in large constructions of doors than in the smaller constructions thereof; and in this instance my invention consists of the formation of an angle-plate similar to that described in my application aforesaid, but which in this instance is provided with the regulating-screw and two set-screws, which are seated in the same plate, and by loosening the set-screws the regulating-screw may be adjusted to overcome the defect and inconvenience caused by the sagging of the door, the said regulating-screw then being retained in its adjusted position by the two set-screws, one of each of which is situated above and below the said regulating-screw.

In the accompanying drawings, wherein like letters of reference indicate similar parts in the several views, Figure 1 is a perspective view of my improved hinge, the parts thereof being shown united. Fig. 2 is a horizontal section of the hinge and a portion of the door and jamb. Fig. 3 is a front elevation of the parts of my improved hinge shown separated. Fig. 4 is a detail view of the plate C.

A indicates the leaf of the hinge, which is secured to the door and which is united to an angle-plate or other section of the hinge by suitable knuckles interlocked pivotally by a pintle-rod, as in my application aforesaid. A plate, C, is also provided, which is of similar construction and occupies a similar position to the plate shown in my application now on file. The plates A and B have suitable recesses formed in their faces, which pass over the heads of the screws and thereby provide means whereby the hinge may be closed without impinging against the heads of the screws. As shown in Fig. 3, the regulating-screw S is situated in the same position in the plate B as in my aforesaid application, having the retaining-plates *s s* in the rear thereof and projecting through and engaging with a boss, *c*, formed with the rear part or base of the plate C. The screws S′ S′ are arranged at the upper and lower portions of the plate B and pass through and engage with stationary nuts formed on the rear side of the plate C. As in the hinge illustrated in my aforesaid application, the boss *c* projects into the door-frame, and in this instance the ends of the set-screw S′, as well as their stationary nuts, also protrude into said frame. The plate or leaf B works on the angular base of the plate C in the same manner as in my aforesaid application; but in this instance the said angular portion of the plate B and of the plate C are partially inclosed by the casing of the door and are unprovided with any adjusting means at this point. A portion of the casing of the door also projects under the main portion of the hinge adjacent to the joint thereof and forms an auxiliary support therefor. In adjusting the door when desired, the two set-screws S′ are released and the regulating-screw is so adjusted as to overcome the inconvenience produced by the sagging of the door. The set-screws are then adjusted or screwed into the stationary nuts formed therefor and hold the regulating-screw

in its adjusted position, and thereby prevent the said regulating-screw working loose by the action of the door. The plate B, through which the set-screws and the regulating-screw pass, will have no means of securement other than the set-screws S′ S′ and the retention provided by the regulating-screw.

The novelty and utility of my improvement being apparent, it is not necessary to further enlarge upon the same herein.

Having thus described my invention, I claim—

1. The combination, with the leaf A, the angle-plate B, hinged thereto, and the angle-plate C, rigidly secured to the door-frame, of the regulating-screw S, and the set-screws S′ S′, the set-screws being located in the same plate as the regulating-screw, substantially as described.

2. In combination with the leaf A, the angle-plate B, hinged thereto, the angle-plate C, rigidly held in place, the angle of the plate B fitting in and guided by the angle of plate C, and the adjusting-screw S, for moving and setting the plate B with relation to the plate C, as set forth.

3. In combination with the leaf A, the plate B, hinged thereto, the rigid plate C, having the threaded bosses, and the adjusting-screws swiveled in the plate B and engaging the bosses of plate C.

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

JACOB WRIGHT.

Witnesses:
E. G. SIGGERS,
MYRTLE STALNAKER,
WM. N. MOORE.