L. S. PRENTISS.

REVERSIBLE SUPPORTING PLATE FOR ADJUSTABLE HINGING STRIPS FOR DOORS.

APPLICATION FILED AUG. 8, 1908.

925,505. Patented June 22, 1909.

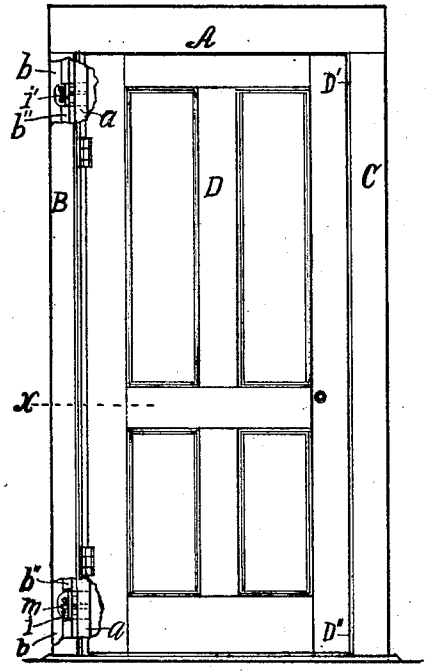


Fig. 1.

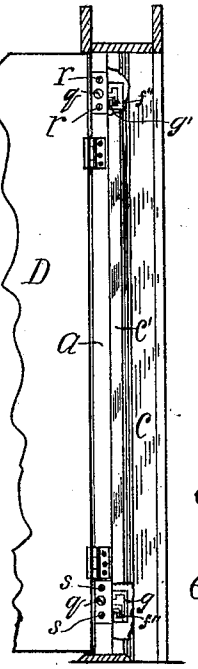


Fig. 2.

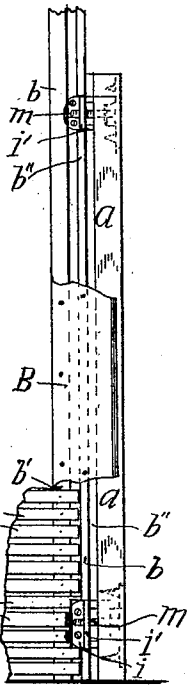


Fig. 3.

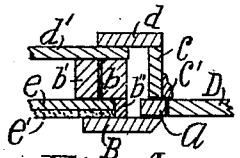


Fig. 4.

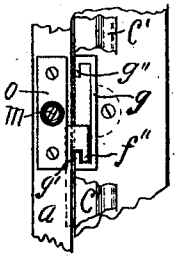


Fig. 5.

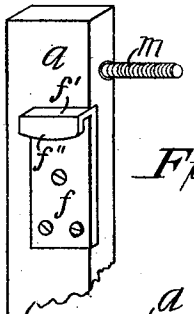


Fig. 6.

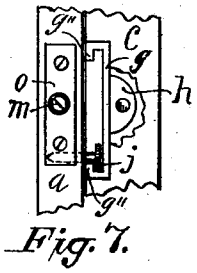


Fig. 7.

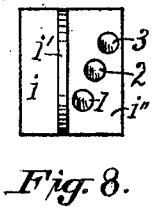


Fig. 8.

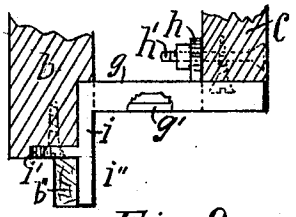


Fig. 9.

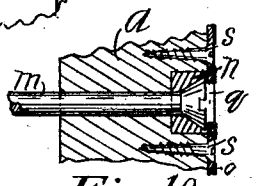


Fig. 10.

Witnesses:

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UNITED STATES PATENT OFFICE.

LEWIS S. PRENTISS, OF OKLAHOMA, OKLAHOMA.

REVERSIBLE SUPPORTING-PLATE FOR ADJUSTABLE HINGING-STRIPS FOR DOORS.

No. 925,505. Specification of Letters Patent. Patented June 22, 1909.

Application filed August 8, 1908. Serial No. 447,602.

To all whom it may concern:

Be it known that I, LEWIS S. PRENTISS, a citizen of the United States, residing at Oklahoma city, in the county of Oklahoma and State of Oklahoma, have invented certain new and useful Improvements in Reversible Supporting-Plates for Adjustable Hinging-Strips for Doors, of which the following is a specification.

My invention relates to reversible supporting-plates for hinging-strips for doors in dwelling houses and other buildings, in which the door is hinged to a vertical hinging-strip having supporting hooks secured to its rear surface with their lip or hook portions resting in seats provided therefor in hook-supporting plates secured to the studding and the jamb to support the weight of the door; adjusting-bolts at the top and bottom portions of the said hinging-strip serve to hold said strip in position and adjust the same, all of which will be fully explained as we proceed.

The objects of my invention are to provide means whereby shrunken and swollen doors may be adjusted to close properly without the necessity of piecing them out or dressing them off. I accomplish these objects by the mechanism illustrated in the accompanying drawings, forming a part of this specification, in which—

Figure 1 is an elevation of the inside of an ordinary door hinged with my attachments, being partly shown where the casing is broken away; Fig. 2 is an elevation of the same, viewed from within the doorway, with the door opened and a portion of the door stop broken away; Fig. 3 is an elevation of the left side of the doorway, with portions of the door casing and the plastering removed to disclose interior parts; Fig. 4 is a cross section on line *x* Fig. 1; Fig. 5 is an elevation of a portion of the door jamb, the hinging-strip and the door-stop, a portion of which is broken away; Fig. 6 is a perspective of the upper end of the hinging-strip; Fig. 7 is similar to Fig. 5, except that a stub of a nail is substituted for the supporting-hook; Fig. 8 is an end elevation of the hook-supporting-plate; Fig. 9 is a plan of the same as in position; for active service; Fig. 10 is a vertical section of a portion of the hinging-strip showing position of the adjusting bolts.

Similar characters refer to similar parts in the several views.

Referring to the drawings, A designates the cap, B the left and C the right inside casings of a door frame, in which the edges of the side casings B and C are beveled and the door is "set in" the thickness of the casing. The hinging-strip *a* is the same thickness as the door D and in width may range from one to three inches, the door being hinged to its face edge, and in the present case to swing to the left.

In constructing new buildings, in placing the studdings for the door, place two as *b* and *b*, Fig. 4 and from the inner edge of the jamb *c* rip off a piece as wide as the hinging-strip is thick and nail it on the edge of the studding *b* for a ground *b''*, to which the casing B is nailed, it being nailed also to the studding *b'*; *c'* indicates the door stop, *d* the outside casing, *d'* the weather-board *e* the lath and *e'* the plaster of the wall of a wood or frame building. In stone and brick buildings pieces of wood may be set in the wall to which the casing and other parts may be secured.

To support the door and the hinging-strip *a* said strip has set in its rear side and near each end a supporting-hook consisting of a plate member *f* provided with screw holes, a right-angled member *f'* projecting from one of the sides of said plate at one of its ends and a return flange or lip *f''* parallel with said plate member which is set in flush with the surface of said hinging-strip, to which it is secured. See Fig. 6. To form a rest for the lip *f''* the hook-supporting-plate *g* is provided having a perforated plate-body portion and from its upper and lower edges forwardly turned hooks *g'* and *g''* making it reversible, and when viewed from its end has much the form of the letter E with its central part removed; said plate *g* is secured, by screws, to the edge of the jamb *c* and to secure it more firmly an ear member *h* projects from its rear surface and transversely thereto and by means of the bolt *h'* it is firmly secured to the said jamb, see Fig. 9, and to secure said hook-supporting-plate (*g*) to the studding *b*, the inner end of said plate bends outward at a right angle forming a foot *i* of equal width with the main body thereof its toe portion *i''* having threaded perforations 1, 2 ann 3, corresponding to thick, thin and medium hinging-strips; from the back of said foot portion (*i*) and at right-angles thereto projects a wing *i'* having holes for screws by which it is secured to the studding *b*, being set in the edge flush therewith and the foot (*i*) is set in the side of the studding, flush, a short portion of the

ground b'' being cut away, to give room for the toe portion i''. See Fig. 9. In the absence of and as a substitute for the supporting-hook f the "stub of a nail or a spike" (j) may be used by driving it in the side of the hinging-strip a and allowing the head to project sufficiently to form a hook. See Fig. 7.

To provide a simple mode of adjusting the hinging-strip a and thereby the door D, the adjusting bolt m is passed loosely through from edge to edge of said hinging-strip and is threaded into one of the holes 1, 2 or 3 according to the thickness of the said strip a. To prevent the head of said bolt m from binding or from wearing the hinging-strip the collar n is provided and set in the edge of said strip regarded as the outer or face edge; and, to secure said collar and bolt head in proper relation a face-plate o having screw holes and a central adjusting-hole q is set into said hanging-strip flush with its edge and firmly secured in position that the center of said adjusting-hole q shall be directly over the head of said bolt to admit a screwdriver to the kerf in the head of said bolt for turning the same. The supporting and adjusting parts are reversible and are duplicates above and below except that the screws s s should be longer than the upper ones r r, because the pressure is upon the rear of the lower face-plate.

To apply these attachments to the doors of old buildings, where the doors are "set in", remove the casing B or C and from the jamb c cut a strip the thickness of the hinging-strip a; place and secure the two hook-supporting-plates g; hinge the door to the hinging-strip and put it in place securing it by the upper adjusting-bolt m and by the two adjusting-bolts set the door so it will close properly.

In operation, if the door swells and thus prevents it from closing, with a screwdriver turn both adjusting-bolts until the door closes properly; if the building settles or from other causes the door binds against the casing as at D′, turn the upper adjusting-bolt to draw the upper end of the hinging-strip back and if the door binds at D″ turn the lower adjusting-bolt to draw or permit the lower end of the hinging-strip to move rearward until the door closes properly; and, in case the door shrinks reverse the operation.

My present invention is an improvement on my former patent of November 5, 1907 numbered 870,128, the present being a simplification and better adaptation of the invention to old buildings.

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

In combination with adjustable hinging-strips for hinging doors adjustably; a reversible supporting-plate g having its body portion perforated for screws, its upper and lower edges turned forward and toward each other forming hooks g' and g'', a perforated ear projection h extending rearward from said body portion for securing said plate in position, a foot member i formed at right angles to said body portion and having a lateral ear projection i' by which to secure said plate to the studding, the said foot portion having threaded holes 1, 2, 3, for adjustable bolts, substantially as described.

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

LEWIS S. PRENTISS.

Witnesses:

LOUIS J. A. VOLLERS,

HOWARD GRAVES.