W. L. ALLEE.

BRACE.

APPLICATION FILED OCT. 21, 1919.

1,346,736. Patented July 13, 1920.

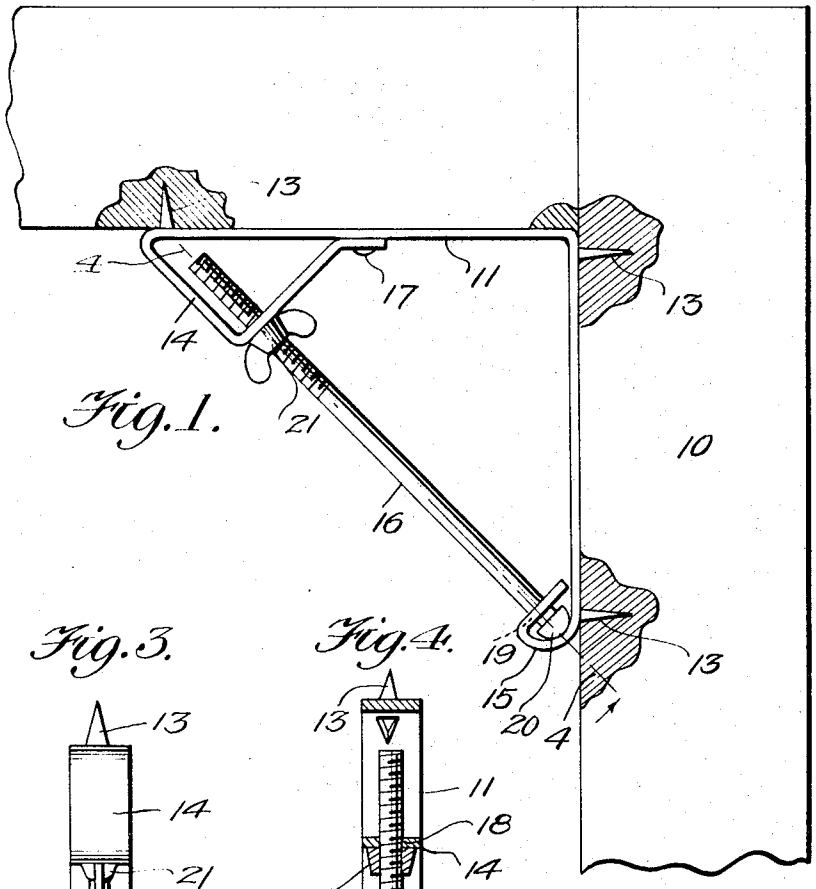


Fig. 1.

Fig. 2.

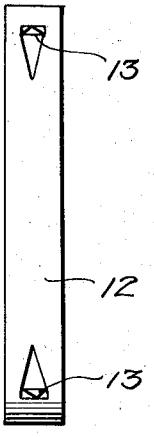


Fig. 3.

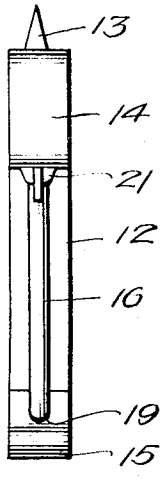
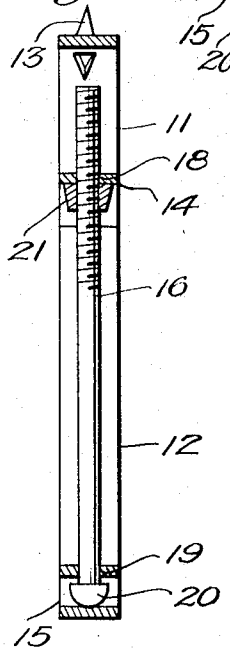


Fig. 4.



Witnesses

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BRACE.

1,346,736. Specification of Letters Patent. Patented July 13, 1920.

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To all whom it may concern:

Be it known that I, WILLIAM LEROY ALLEE, a citizen of the United States, residing at Topeka, in the county of Shawnee and State of Kansas, have invented new and useful Improvements in Braces, of which the following is a specification.

This invention relates to corner braces and is especially designed for bracing the corners of screen doors to prevent the latter from sagging.

An object of the invention is the provision of a brace of simple construction, which may be applied without the use of auxiliary fastening devices and which may be adjusted after application when necessary or desired.

Another object of the invention is the provision of a brace of this character, in which the adjusting means is also employed for securing the brace in position, so that the adjustment of the brace after application, will act to more securely hold the same in place.

Other objects and advantages of the invention will appear as the following description is read in connection with the accompanying drawings.

In the drawings:

Figure 1 is a fragmentary sectional view of a portion of the screen door showing the application of the invention.

Fig. 2 is a sectional view taken on the plane parallel to the face of the door.

Fig. 3 is an edge view of the brace *per se*.

Fig. 4 is a section on the line 4—4 of Fig. 1.

Referring to the drawings in detail, wherein like characters of reference denote corresponding parts, the numeral 10 designates the frame of a screen door, to which the brace as shown is applied. The brace is designed to fit into the angle of the door as illustrated in Fig. 1 and is preferably formed of strap metal and is bent to provide a right angular member having legs 11 and 12. Projecting laterally from the corner of the right angular member and each end thereof are prongs 13, the latter being preferably formed by striking up a portion of the metal and bending the same outwardly. These prongs are designed to be forced into the adjacent portion of the frame 10 of the door so as to hold the brace in position.

The outer ends of the legs 11 and 12 are formed into loops 14 and 15 respectively, which are designed to receive the opposite end of a bolt 16. For this purpose the loop 14 is substantially triangular in form and has its ends secured to the leg 11 as indicated at 17 and is provided with an opening 18 for the passage of the threaded end of the bolt 16. The loop 16 is also provided with an opening for the passage of the opposite or headed end of the bolt, this opening being designated at 19 and the arrangement of the loop being such as to inclose the head 20 of the bolt so that the latter will bear against the outer end of the leg 12 when the bolt is adjusted. To accomplish this adjustment, the bolt 16 is provided with a winged nut 21, which bears against the outer surface of the loop 14 and when the nut is moved along the threads of the bolt toward the extremity thereof the outer ends of the legs 11 and 12 will be forced apart, this action also serving to force the prongs 13 adjacent the outer end of the said legs into the frame of the door. The brace is initially secured in position by forcing the prong 13 which is located at the juncture of the legs into the door frame. This prevents lateral movement of the brace with respect to the door frame when the prongs are forced into position.

The invention is susceptible of various changes in its form, proportions and minor details of construction, and the right is herein reserved to make such changes as properly fall within the scope of the appended claim.

Having described the invention what is claimed is:—

A corner brace comprising a substantially right angular member formed from a single piece of material and bent at its free ends to provide substantially triangular loops, the opposite legs of each loop being substantially parallel, prongs projecting laterally from said member, an adjusting screw having its head positioned in one of said loops and its threaded end passing through an opening in the other loop and a nut mounted upon the adjusting screw and bearing against the outer face of the last mentioned loop, whereby the brace may be adjusted and secured in position.

In testimony whereof I affix my signature.

WILLIAM LEROY ALLEE.