

June 14, 1927.

P. J. PICCIRILLI

1,631,980

DOOR BRACE

Filed April 23, 1926

Fig. 1.

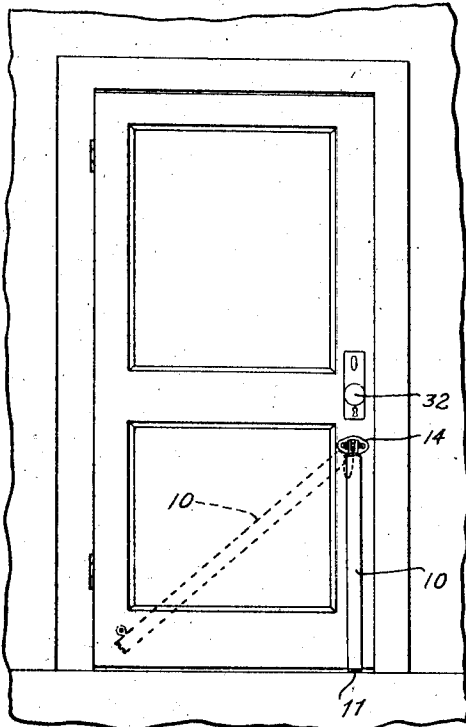


Fig. 2.

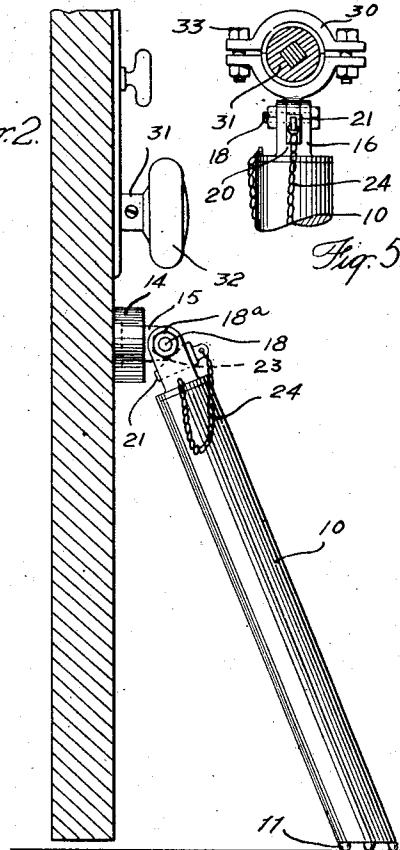


Fig. 5.

Fig. 3.

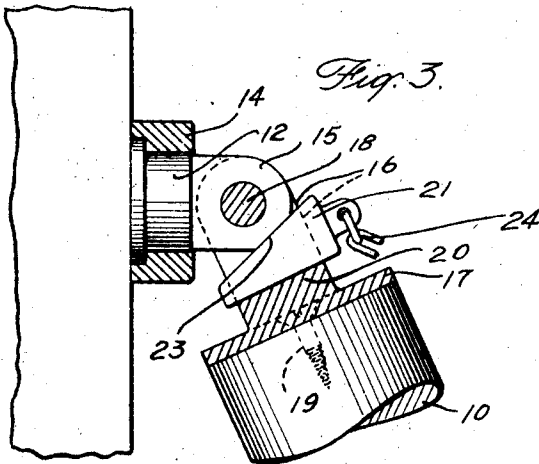
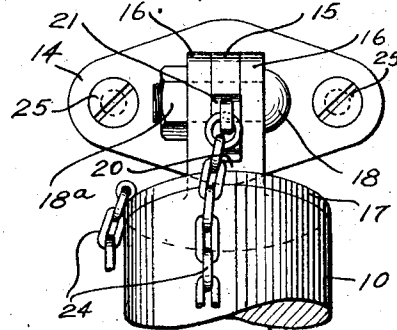


Fig. 4.



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UNITED STATES PATENT OFFICE.

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DOOR BRACE.

Application filed April 23, 1926. Serial No. 104,053.

My present invention relates to a door-brace. More particularly it seeks to provide an article of this class having improved means for locking the brace in operative position.

My invention will be best understood from the following detailed description taken with the annexed drawing in which:

Figure 1 is a view in front elevation of a door equipped with my improved device;

Figure 2 is an enlarged view in side elevation of the brace in operative position;

Figure 3 is an enlarged view illustrating the improved locking means at present preferred by me, parts being in section;

Figure 4 is a view similar to Figure 3 but seen from the front; and

Figure 5 is a front view of a modification.

In the drawings 10 is the bracing rod proper, the lower end of which may be bevelled as shown and provided with rubber pegs 11 or other means affording non-slipping contact with the floor. The upper end of the rod is provided with means for attaching same to the door, consisting preferably in part of a flanged member 12 and a socket member 14, cooperating therewith to form a swivel attachment. A joint connection is provided between the member 12 and the top of rod 10 comprising a tongue 15 formed on the end of said member 12 and a fork 16 formed in the extremity of a member 17, attached to the top of the rod by appropriate means such as wood screws 19. A pivot 18 connects the members 15 and 16 and may be provided with securing nut 18^a.

A feature of the invention resides in utilizing the jointed connection as a part of a locking means for the rod in operative position. Accordingly, I make the sides of the fork 16 of sufficient length so as to provide a space between the end of the tongue 15 and the bottom 20 of the slot of the fork 16. It will be evident that by inserting a jamming or locking member 21 of appropriate shape in the thus formed space that rotation of the rod around the pivot 18 will be effectively prevented and the bracing rod will thus be securely locked in place.

Preferably the end of the tongue 15 is bevelled as at 23 so as to conform with the contacting edge of the locking member 21 which preferably is of wedge shape as shown, the lower edge of the wedge also

conforming to the bottom 20 of the slot of the fork 16. A chain 24 may be employed to attach the wedge member to the rod so as to prevent the loss of same. Socket member 14 preferably is secured to the door by means of wood screws 25.

In use, the door having been closed, the rod 10 is dropped into position, the lower end being brought down firmly against the floor, whereupon the wedge member 21 is inserted in the space provided therefor between the members of the joined connection. In this manner rod 10 is effectively locked in position. It will be noted that the locking means is disposed in a position totally inaccessible to a person attempting to open the door from the outside. When it is desired to release the brace from the inside, wedge member 21 is removed and the rod 10 swung in its swivel joint 12-14 and the lower end latched to the door as shown in Figure 1.

Figure 5 shows an alternative means for attaching the brace to the door in which the knob is utilized. In this form of the device a split collar 30 is substituted for the swivel arrangement of the preceding figures, collar 30 engaging the neck 31 of the door knob 32. To accomplish this the nuts 33 holding the members of the split collar together are first disengaged. This form of the invention has the advantage that screws do not have to be inserted in the body of the door and also that it may be readily removed and used for different rooms of the house.

It will be understood that slight changes may be made in the device shown without departing from the spirit of my invention and that I do not intend to limit the invention to the precise form shown.

What I claim is:

A door brace comprising a bracing rod, means for revolubly attaching one end of same to the door comprising a socket member attached thereto, a flanged member held within said socket member, said flanged member forming with the end of said rod a fork and tongue arrangement, a pivot therefor, a space being provided between the end of said tongue and the end of the slot of said fork and a wedge member insertible in said space.

In testimony whereof I have affixed my signature to this specification.

PASQUALE J. PICCIRILLI.