July 31, 1928. 1,678,952

W. PATTINSON

DOOR

Filed Aug. 28, 1926

Fig. 1.

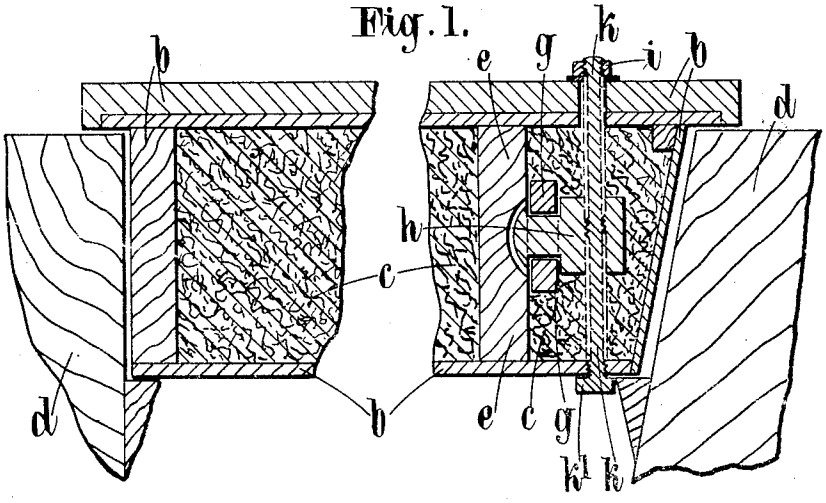
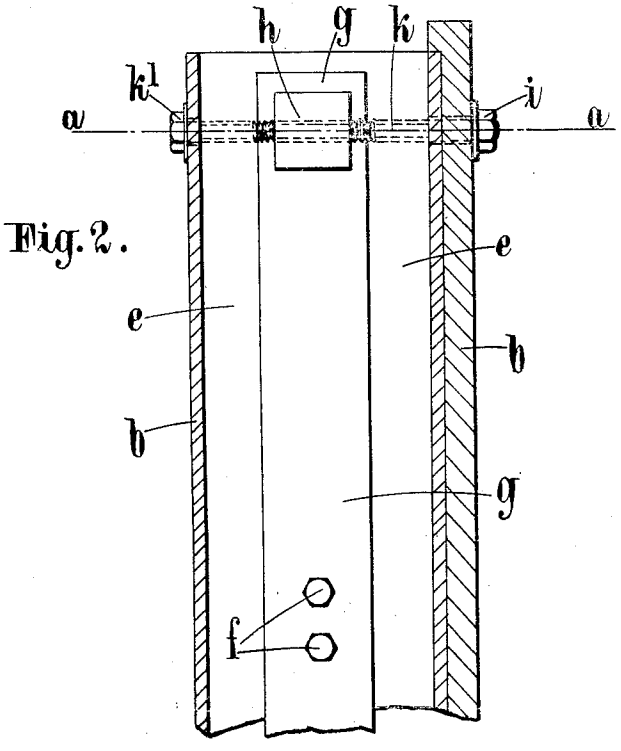


Fig. 2.



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UNITED STATES PATENT OFFICE.

WILLIAM PATTINSON, OF DERBY, ENGLAND.

DOOR.

Application filed August 28, 1926, Serial No. 132,185, and in Great Britain September 28, 1925.

This invention relates to improvements in insulated doors or doors of a great thickness, such as doors for refrigerators, gas ovens or air chambers.

Doors of this nature have previously been subject to certain objections, in that they have warped or bent slightly and so have not fitted tightly up to the frame. To remedy this, expert attention has been necessary with the result that the refrigerator or the like has been temporarily out of use. The object of the present invention is to remove these disadvantages.

According to the invention means are provided for trueing or adjusting the plane of the door, so that any undesired warping or bending which may take place can be adjusted or counteracted without skilled attention.

Referring to the drawings which form a part of this specification Figure 1 is a sectional plan view on line *a*—*a* of Figure 2.

Figure 2 is a part sectional elevation of the upper portion of the edge of a refrigerator door showing my invention applied thereto.

In carrying my said invention into effect I employ the usual door *b* containing insulation *c* and fitting up tightly against a frame *d*. The door is provided with an internal vertical frame member *e* to which is secured at or about its longitudinal centre by bolts or the like *f* a bar *g* preferably of iron or other metal. At its upper and lower ends or at other suitable positions the bar *g* is drilled to receive a part *h* which is mounted therein. This part *h* is formed adjacent to one end with a threaded orifice to receive a bolt or the like *k* and at its opposite end is provided with a convex head which projects into a depression in the member *e*, said depression being of slightly larger diameter than the head. One end of the bolt *k* has a head k^1 and the other end is provided with a nut *i*. This nut *i* is pegged or otherwise tightly secured on the bolt *k* and the head k^1 thereof may be suitably encased if desired to prevent thermal leakage along the bolt.

From the foregoing description, taken in connection with the drawing, it will be seen that when the bolts *k* are rotated, the ends of the bar *g* will be forced to move toward the front or rear of the door, and because of the connection of said bar with the internal frame member *e* said frame member is moved with the bar, thus exerting pressure on the front or rear member *b* thereby to correct any undesired bending or warping which may have taken place.

My invention may be applied to more than one edge or other portion of a door and I do not bind myself to the particular method of carrying the same into effect hereinbefore set forth.

Having now described my invention what I claim as new and desire to secure by Letters Patent is:—

1. In means for adjusting or trueing the plane of doors of the kind referred to, a bar having a revolvably mounted part at substantially each end through each of which passes a bolt having a head at one end and a nut securely fixed thereon at the other, said bar being secured to a member of the door framing at substantially its longitudinal centre, substantially as described.

2. The combination with a door, of stiffening means disposed within said door, a movable member in engagement with said stiffening means, and adjusting means extending through the door and engaging said movable member for moving the stiffening means toward the front or rear of the door.

3. The combination with a hollow door, of a stiffening member disposed within said door, a movable member in engagement with said stiffening member, and bolts passing through the door and engaging said movable member for moving the stiffening member toward the front or rear of the door.

In testimony whereof I affix my signature.

WILLIAM PATTINSON.