W. W. SCHMIDT.

LOCKING DEVICE.

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1,149,090. Patented Aug. 3, 1915.

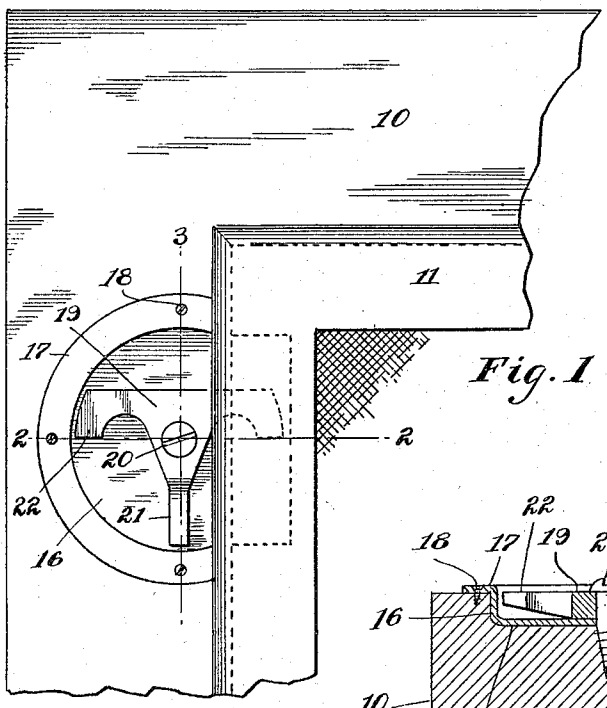


Fig. 1

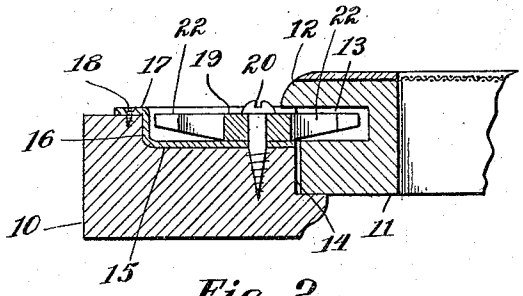


Fig. 2

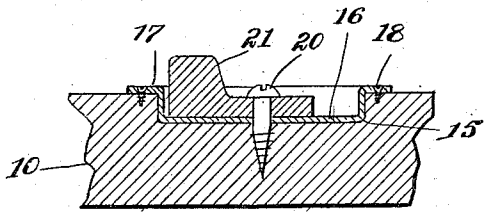


Fig. 3

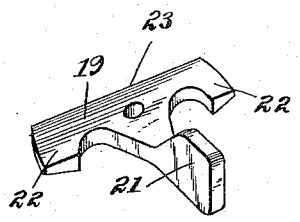


Fig. 4

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LOCKING DEVICE.

1,149,090. Specification of Letters Patent. Patented Aug. 3, 1915.

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To all whom it may concern:

Be it known that I, WALTER W. SCHMIDT, a citizen of the United States, residing at Fond du Lac, in the county of Fond du Lac and State of Wisconsin, have invented new and useful Improvements in Locking Devices, of which the following is a specification.

An object of the invention is to provide a locking device for use in effectually securing a closure or the like to the frame thereof.

The invention contemplates, among other features, the provision of a locking device that is particularly adapted for use in conjunction with storm and screen doors and especially in connection with those kinds of doors known as combination storm and screen doors.

To this end use is made of a suitable base or plate upon which is arranged to rotate a locking element so constructed and designed that portions thereof will extend beneath a ledge upon a closure and also project into a recess in the closure, the locking element being mounted to rotate upon the plate, with said plate suitably secured to the casing which is to be associated with the closure.

Still further embodiments of the invention reside in a locking device which consists of few and simple parts that can be cheaply manufactured and which cannot readily get out of order.

In the further disclosure of the invention reference is to be had to the accompanying drawings, constituting a part of this specification, in which similar characters of reference denote corresponding parts in all the views, and in which:

Figure 1 is a fragmentary elevation showing my device applied to a closure held in locked relation to its casing; Fig. 2 is a horizontal sectional view taken on the line 2—2 in Fig. 1; Fig. 3 is a vertical transverse sectional view taken on the line 3—3 in Fig. 1; and Fig. 4 is a perspective view of the locking element.

Referring more particularly to the views, I disclose a casing 10 and a closure 11 for said casing, the closure 11 being provided with a projecting ledge 12 and having an undercut recess 13 immediately beneath the ledge 12, said recess being formed in an edge 14 of the closure. The closure 11 is adapted to bear against the edge 14 of the casing 10 as shown, and the casing is preferably provided with a depression 15 in which is fitted and securely arranged a plate 16 having a rising rim 17 adapted to receive therethrough suitable nails, screws or other securing members 18 whereby to rigidly secure the plate in the depression so that the edge of the rim will fit substantially flush with the face of the closure. The locking element is designated by the numeral 19 and is preferably arranged to turn upon the plate and within the rim by having a screw 20 passing loosely through the locking element, the plate, and threaded into the body of the casing.

The locking element consists, more particularly, of a single piece of material forming an upstanding and elongated handle 21 and lateral projections 22 preferably having inclined faces 23 whereby said projections will be of a substantially wedge-shaped construction, the projections extending in opposite directions with respect to the handle and adapted to pass beneath the ledge 12 when the handle 21 is actuated to rotate the locking element upon the plate, said projections, furthermore, being adapted to extend into the recess 13 formed in the closure adjacent the ledge 12 thereof.

When the locking element is in unlocked relation to the closure an edge 23 thereof will lie parallel to the edge of the ledge and when a quarter turn is given to the locking element, it will be seen that one of the projections will pass beneath the ledge and extend into the recess 13, a plurality of the projections 22 being provided to form a part of the locking element in order to adapt the fastening device to right and left hand sides of casings and the closures thereof.

From the foregoing description it will be clearly seen that the fastening device described consists of few and simple parts and primarily involves merely a plate forming a seat for a revoluble locking element lying within the plate, with suitable screws, nails or other fastening members for securing the plate to a casing or the like and for revolubly supporting the locking element upon the plate.

Having thus described my invention, I claim:

In combination, a rectangular closure having a recess formed in one edge, a casing abutting the recessed edge of the closure and also having a shoulder contacting with one side of the closure, said casing adjacent the

recess being provided with a depression, a locking element seated in the depression comprising a pair of alining projections, a handle extending at right angles to the projections and a screw passing through said element at the juncture of the projections and handle through said plate and into said casing, each of said projections having its under surface inclining away from said plate toward its outer extremity and arranged to engage one wall of the recess.

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

WALTER W. SCHMIDT.

Witnesses:
L. J. SCHMIDT,
GERTRUDE A. GRABE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents Washington, D. C."