(No Model.) 2 Sheets—Sheet 1.

E. F. BARROWS.

LATCH.

No. 417,970. Patented Dec. 24, 1889.

Fig. 1.

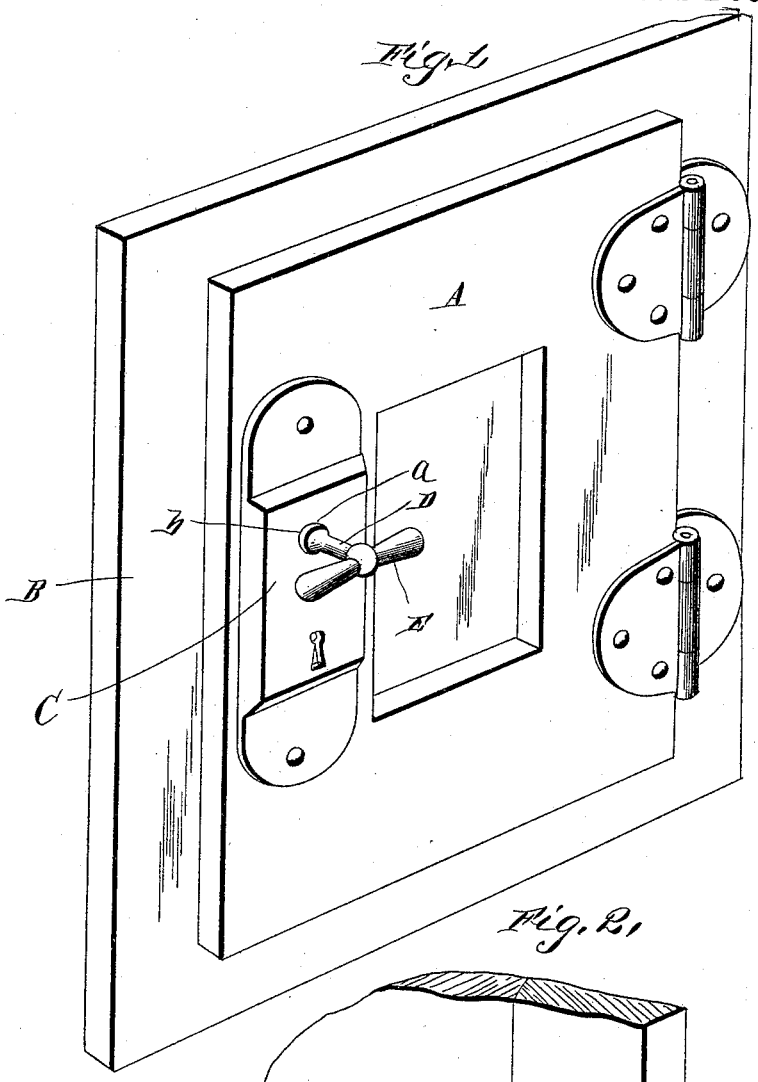
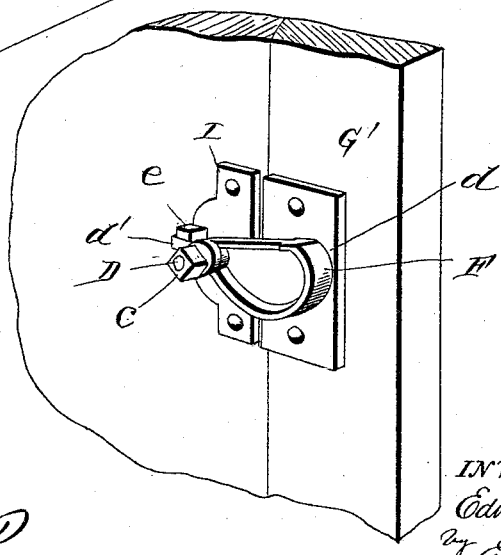


Fig. 2.



WITNESSES

C. L. Taylor

J. W. Anderson

INVENTOR

Edward F. Barrows

by E. W. Anderson

his Attorney

(No Model.)

2 Sheets—Sheet 2.

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Fig. 3.

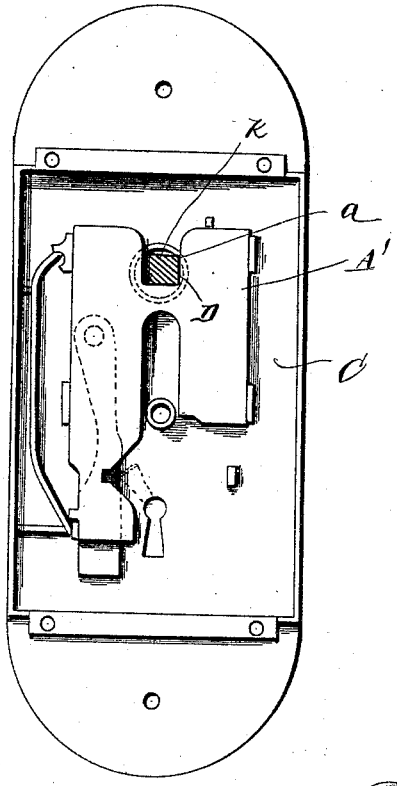


Fig. 5.

Fig. 6.

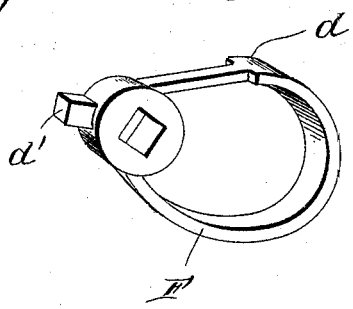
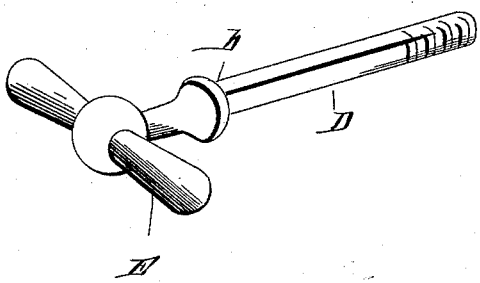


Fig. 4.



WITNESSES

C. L. Taylor,

J. W. Anderson.

INVENTOR

Edward F. Barrows

by E. W. Auwaa

his Attorney

UNITED STATES PATENT OFFICE.

EDWARD F. BARROWS, OF CHICAGO, ILLINOIS.

LATCH.

SPECIFICATION forming part of Letters Patent No. 417,970, dated December 24, 1889.

Application filed July 27, 1889. Serial No. 318,848. (No model.)

To all whom it may concern:

Be it known that I, EDWARD F. BARROWS, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Fastenings for Refrigerator and other Doors; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of a perspective view of the invention applied. Fig. 2 is an interior view showing the cam-fastener. Fig. 3 is an open view of the lock-case and its mechanism. Figs. 4, 5, and 6 are details.

This invention relates to adjustable fastenings and locking devices for the same for refrigerator and other doors; and it consists in the novel construction and combination of parts, as hereinafter described, and pointed out in the claims.

The object of the invention is to construct a fastening especially adapted for refrigerator-doors, whereby the said doors shall always be brought to close fit with the door-frame if at any time there should be warping or irregularity of the parts; also, to provide a locking device whereby the fastening may be held in position and serve the purpose of a lock.

In the accompanying drawings, the letter A designates the door of a refrigerator, and B the door-frame.

G indicates the lock-case on the front of the door, having circular projection *a* registering with a similar perforation in the door for the introduction of a spindle D. The said spindle is rectangular in form, except the end, which is threaded, and is provided with handle E, having shoulder *b*, which bears against the face of the lock and projects through the door on the inside to receive a cam-like plate or fastener F. This fastener is eccentrically attached to the spindle at right angles thereto, and is adjustably secured by a nut *c* on the threaded end of the spindle.

The thickness of the fastener increases from the point of attachment to the spindle toward its periphery to form an inclined or beveled bearing-surface *d* for engaging the face of the plate G on the inside of the door-frame when the spindle is turned to fasten the door. The object of the beveled face of the cam is to draw the door gradually in close relative position to the frame, which is effected as the broad portion of the fastener encroaches against the bearing-plate G′ while the spindle is being turned. The distance traveled by the fastener on the plate G′ is limited by the engagement of the rear lug *d′* of the fastener with the stop-lug *e* of the inner door-plate I. The same stop-lug prevents complete backward revolution of the fastener by engaging the opposite side when the action of the spindle is reversed to open the door.

When it is desired to secure the fastener in locked position, a locking device operated by a removable key is used to prevent turning of the spindle. This device consists of the slotted slide A′, operating in the lock-case C at right angles to the spindle D in suitable guideways, and having a rectangular open slot or notch *k* to engage the rectangular spindle as it passes through the case. This slide is held in position by one or more rocking tumblers, which are engaged and disengaged by the key, and in consequence of the locking mechanism being concealed by the case C the spindle cannot be released, being once in engagement with the notch of the slide, without the use of a key.

When the door-fastener is to be used without a locking device, the lock-case is dispensed with and a simple plate or escutcheon substituted.

What I claim as new, and desire to secure by Letters Patent, is—

1. The door-fastener consisting of the spindle having the eccentric provided with an inclined face or edge bearing against the plate on the door-casing, and with a lug engaging a stop-lug on the door-plate as the eccentric effects the locking of the door, substantially as set forth.

2. In a door-fastener, the combination, with the rectangular spindle, of the locking-plate

adapted to engage said spindle as it is actuated by the key, and arranged in connection with one or more rocking tumblers, and having a long and a short pendent arm, the long arm being notched at one edge and having at its opposite edge a stud normally resting upon a lug of the tumbler, substantially as set forth.

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

EDWARD F. BARROWS.

Witnesses:
MARK BANGS,
JOHN A. MURPHEY, Jr.