(No Model.)

T. BRABSON.

LATCH FOR REFRIGERATORS, &c.

No. 361,922. Patented Apr. 26, 1887.

Fig. 2.

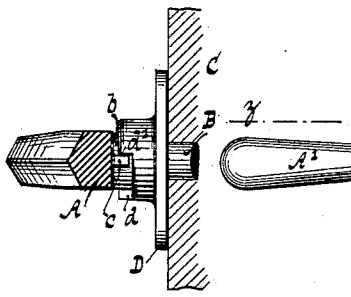


Fig. 1

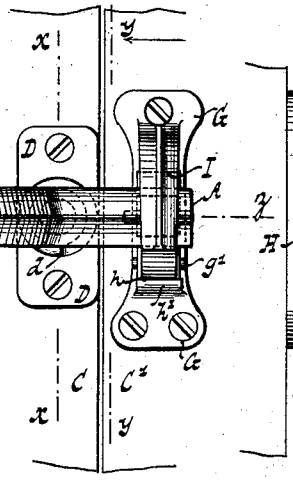


Fig. 3.

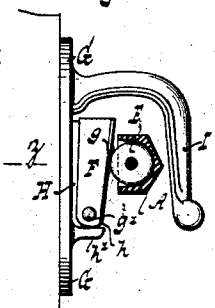


Fig. 4.

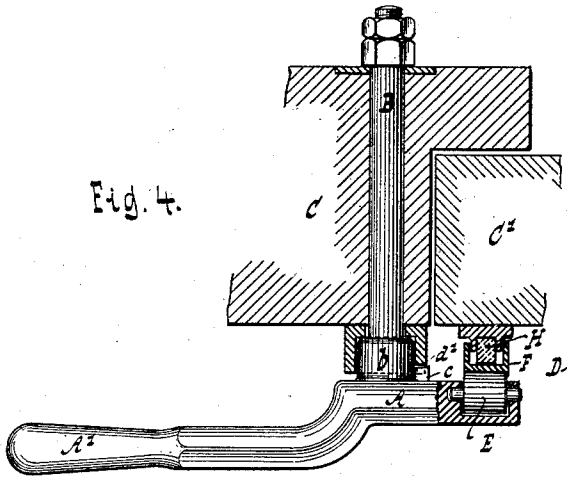


Fig. 5.

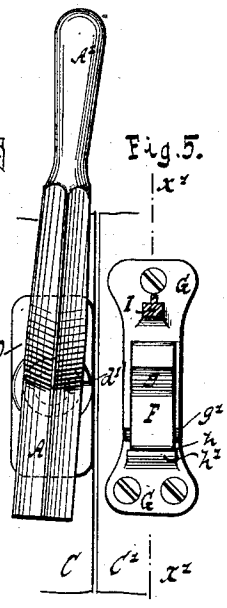
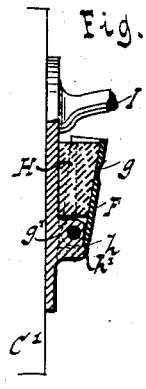


Fig. 6.



WITNESSES:

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UNITED STATES PATENT OFFICE.

THOMAS BRABSON, OF NEWARK, NEW JERSEY.

LATCH FOR REFRIGERATORS, &c.

SPECIFICATION forming part of Letters Patent No. 361,922, dated April 26, 1887.

Application filed February 3, 1887. Serial No. 226,410. (No model.)

To all whom it may concern:

Be it known that I, THOMAS BRABSON, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented new and useful Improvements in Latches for Refrigerators, &c., of which the following is a specification.

The object of my invention is to provide a novel latch, especially adapted for the doors of refrigerators, and which is simple and very durable in use.

The object of my invention I accomplish in the manner and by the means hereinafter described and claimed, reference being made to the accompanying drawings, in which—

Figure 1 represents a front view of a latch embodying my invention. Fig. 2 is a vertical section in the plane *x x*, Fig. 1. Fig. 3 is a similar section in the plane *y y*, Fig. 1. Fig. 4 is a horizontal section in the plane *z z*, Fig. 1. Fig. 5 is a front elevation showing the latch-bolt withdrawn. Fig. 6 is a vertical section in the plane *x' x'*, Fig. 5.

Similar letters indicate corresponding parts.

In the drawings, the letter A designates a latch-bolt, which has secured thereto a threaded shank, B, that extends through the door-jamb C, and is secured at the other end by a nut and jam-nut, so that the latch-bolt can be freely rotated. The shank B is secured in a hub, *b*, on the latch-bolt A, and said hub is provided with a tooth, *c*, which is adapted to engage with stops *d d'*, formed in a socket in the rigid bolt-plate D, into which socket the hub *b* extends. The stops *d d'* are so arranged with reference to the tooth *c* that the latch-bolt A can be swung from a vertical to a horizontal position, or through an angle of ninety degrees. A handle, A', on the latch-bolt A facilitates the manipulation of the same.

In the end of the latch-bolt A is formed a recess, in which is fitted a roller-stud, E, that can freely rotate about a pintle secured in the bolt, and said roller-stud is adapted to engage with a catch-plate, F, when the bolt is swung to its horizontal or locking position. The catch-plate F is pivoted at *g'* to a lug on the rigidly-secured base-plate G, and is subjected to the action of a stiff spring, H—such, for instance, as a block of rubber or similar elastic material—which fits tightly in a recess in the base-plate G. The catch-plate, which is in the shape of a trough, is provided with an inclined face, or may be set at an angle, so that when it is engaged by the latch-bolt it is forced inward against the action of the spring H, and at the completion of the movement of the bolt the door is tightly closed against the jamb. A stop, as *h*, formed by the flat portion of the lower end of the catch-plate, is intended to come into contact with a ledge or stop, *h'*, on the base-plate G and limit the motion of the catch-plate.

In the catch-plate is formed a circular depression or recess, *g*, which receives a portion of the roller-stud E, and thereby retains the bolt in its horizontal or locking position with great security. A bent arm or handle, I, extending from the base-plate G and depending in front of the catch-plate, is intended to be grasped when the door C is to be opened, but also serves to guide the bolt in locking the door, for which purpose the lower end of the said handle is free and disconnected from the base-plate G, so as to provide a space between the catch-plate and the free end of the handle for the entrance of the swinging latch-bolt.

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

1. The combination, with a pivoted latch-bolt, of a roller-stud carried by the same, a catch-plate, and a spring supporting the same, said catch-plate containing a recess for receiving and retaining the roller-stud, substantially as shown and described.

2. The combination, with a latch-bolt, of a roller-stud carried by the same, a hinged catch-plate provided with a recess, a spring supporting the plate, and stops for the bolt, substantially as described.

3. The combination, with a latch-bolt, of a roller-stud carried by the same, stops for said latch-bolt, a hinged catch-plate provided with a recess to receive the roller-stud, a rubber spring supporting the catch-plate, and a stop for the latter, substantially as shown and described.

4. The combination, with a pivoted latch-bolt, of a roller-stud carried by the same, a catch-plate, a spring supporting the same, a

base-plate, and a grasping-handle on said plate depending in front of the catch-plate, and having a free lower end disconnected from said base-plate to provide a space between the free end of the handle and the catch-plate for the entrance therebetween of the latch-bolt, substantially as shown and described.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

THOMAS BRABSON. [L. S.]

Witnesses:
W. HAUFF,
E. F. KASTENHUBER.