

(No Model.)

J. H. BARRETT.
COMBINED LOCK AND LATCH.

No. 541,801.

Patented June 25, 1895.

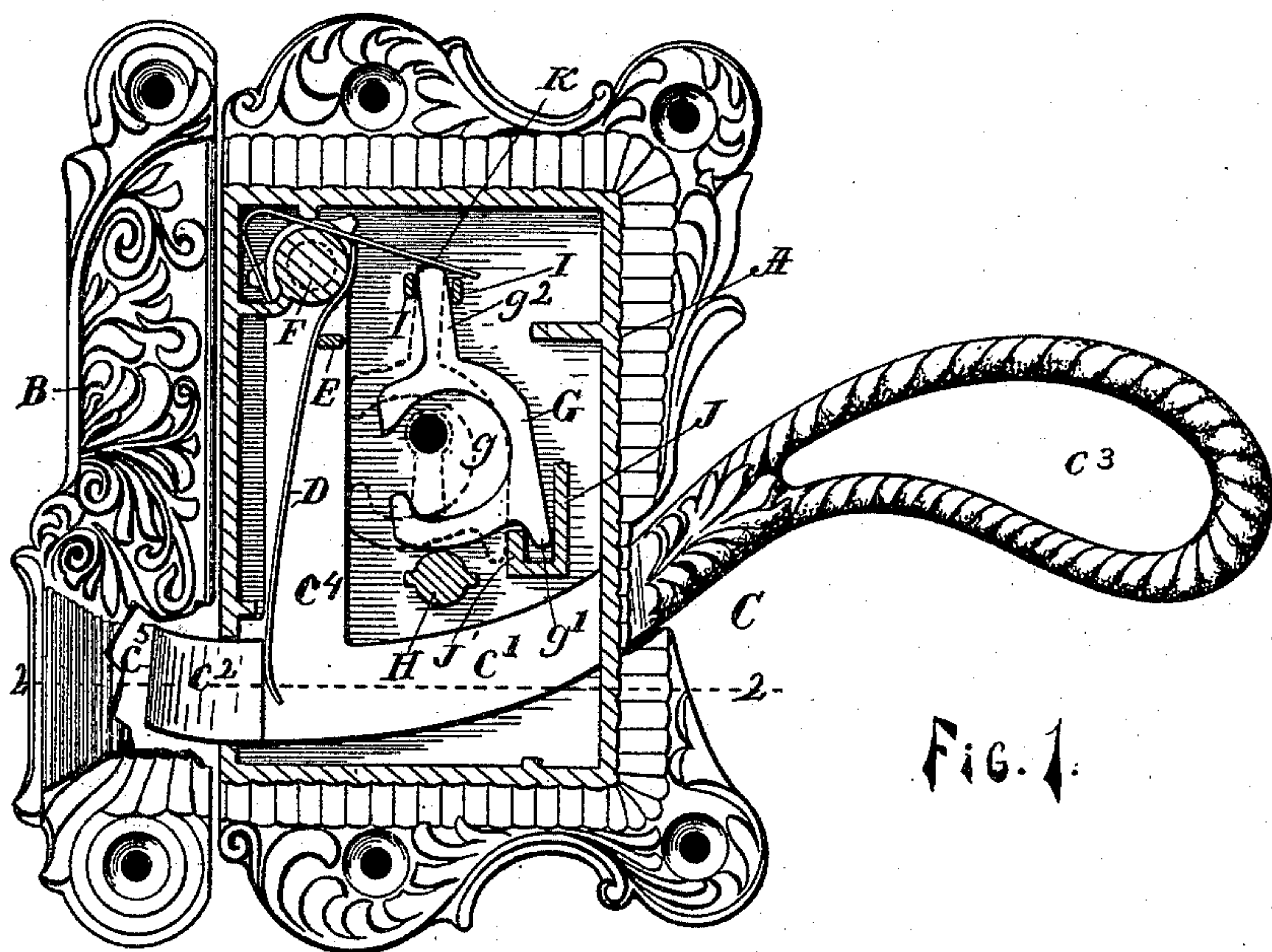


Fig. 1.

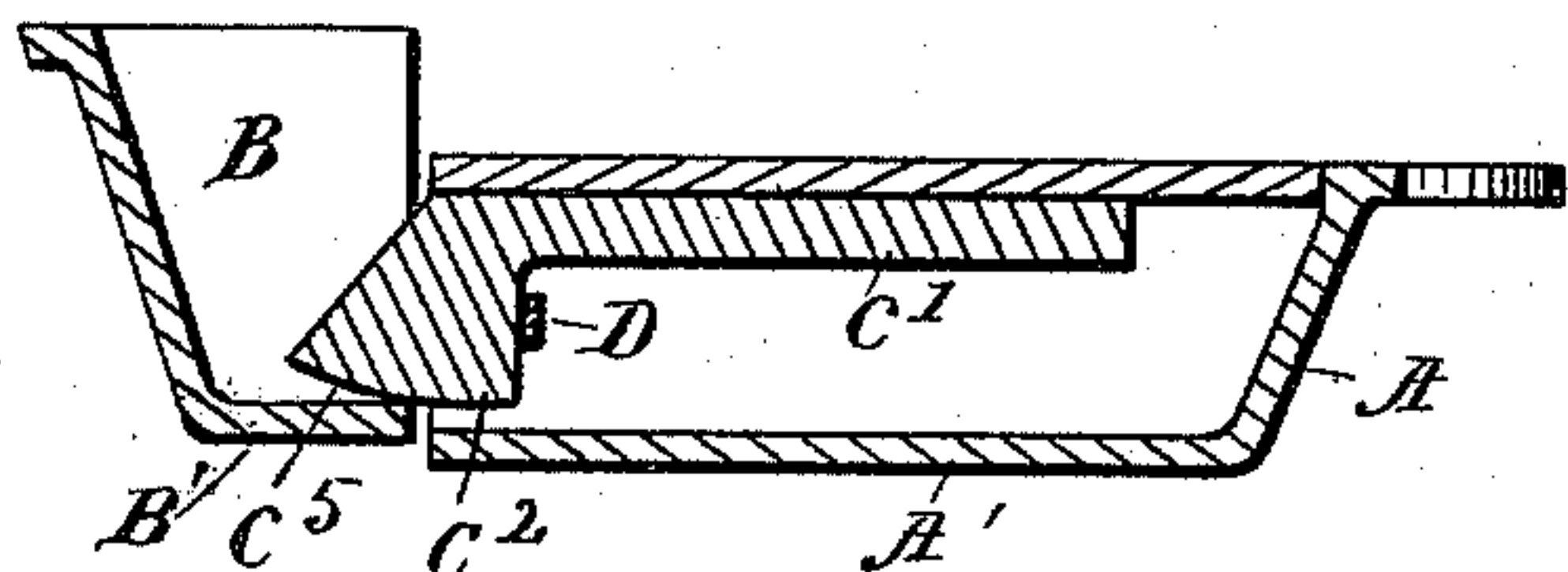


Fig. 2.

WITNESSES:

Emily B. Wohl.
C. A. Bacon

INVENTOR

James H. Barrett
BY
Dennis L. Rogers
ATTORNEY

UNITED STATES PATENT OFFICE.

JAMES H. BARRETT, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR TO CHARLES H. LEONARD, OF SAME PLACE.

COMBINED LOCK AND LATCH.

SPECIFICATION forming part of Letters Patent No. 541,801, dated June 25, 1895.

Application filed October 5, 1894. Serial No. 525,023. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. BARRETT, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in a Combined Lock and Latch; and I do hereby 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.

My invention relates to combined locks and latches.

My object is to provide a combined lock and latch, specially adapted to cases where a very tight fit is required between the door and the jamb, for preventing the escape of air as in refrigerators and similar doors.

The invention consists in the peculiar construction, combination and arrangement of the parts hereinafter described and particularly pointed out in the claims, reference being had to the accompanying drawings, which, with the letters of reference thereon, form a part of this specification, and in which—

Figure 1 represents an elevation of a combined lock and latch, constructed in accordance with my invention, with the front plate of the casing broken away to show details, and Fig. 2 a horizontal section of the same, on the line 2 2 of Fig. 1.

A represents the lock casing, provided at one end with an opening, in which moves the projecting beveled end of the spring actuated latch, and at the opposite end with an opening for the handle, and A' is the front plate of the casing broken away in Fig. 1, as stated.

B is the strike plate or keeper, the front plate B' of which is broken away in Fig. 1.

C, is a combined latch and handle, formed integral, constructed in the L shaped form shown, having the pendulous vertical arm c^4 pivoted at its upper end on the post F, a spur (c^2) at the back lower corner of the L projecting through the casing and engaging with the keeper, and having the rounded face c^5 , the horizontal upwardly curved long arm portion c' inside the casing, and the outwardly projecting oppositely curved portion c^3 outside of the casing forming the handle. D, is the

spring which actuates the latch and E, the lug behind the spring, which holds it in place.

G, is a plate or casting for locking the latch and has the semicircular opening g , the projecting portion g^2 between the lugs I, I, and the projecting portion g' between the lugs J, J. When unlocked, this casting is in the position shown in Fig. 1, but when the key is inserted and turned around, the guard of the key engages the lower side and lifts it to the position shown in dotted line in the same figure, the arms bearing against the back of the portion c^4 of the latch, and the projecting portion g' engaging the lug J, upon the opposite side, thereby preventing lateral movement of the latch.

H, is a post on the front plate, in which, upon the opposite end, is the screw (not shown) which holds the back plate in position, and K, is a spring for the casting G.

It will now be seen that, by grasping the handle c^3 , the curved face c^5 engaging the plate B' of the keeper, the door may be forced against the jamb as with a lever, the fulcrum of which is the post F, by pulling down upon the outwardly projecting handle, which forms the long arm of the L shaped structure; the opposite, or short arm c^2 , forming the catch bolt, being really a continuation or prolongation of the handle, whereby I obtain great purchase for forcing the door tight, on account of the wedging of the rounded face c^5 against the face B' of the keeper B. In other words, down stroke of the handle, produces lateral movement of the catch.

I claim—

1. The combination with the casing and the L-shaped integral combined latch bolt and handle pivoted at the upper end of its vertical arm, to swing laterally in said casing, and having the laterally projecting portion c^2 to form the catch as set forth, of the locking plate or casting G, arranged behind said vertical arm, adjusted to be alternately moved, to engage with and recede from said vertical arm, having the portion g' engaging the lugs J', J, the portion g^2 arranged between the guide lugs I, I, and the spring K, engaging the end thereof, for holding the same in place, substantially as set forth.

2. In a lock, in combination with the casing
and the L shaped latch and handle, pivoted
in the casing, the casting G, arranged behind
the vertical arm of the latch, having the pro-
5 jecting portions g' and g^2 , and the guide lugs
I, I, and J, J, arranged substantially as set
forth.

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

JAMES H. BARRETT.

Witnesses:

EMILY C. MOHL,
DENNIS L. ROGERS.