

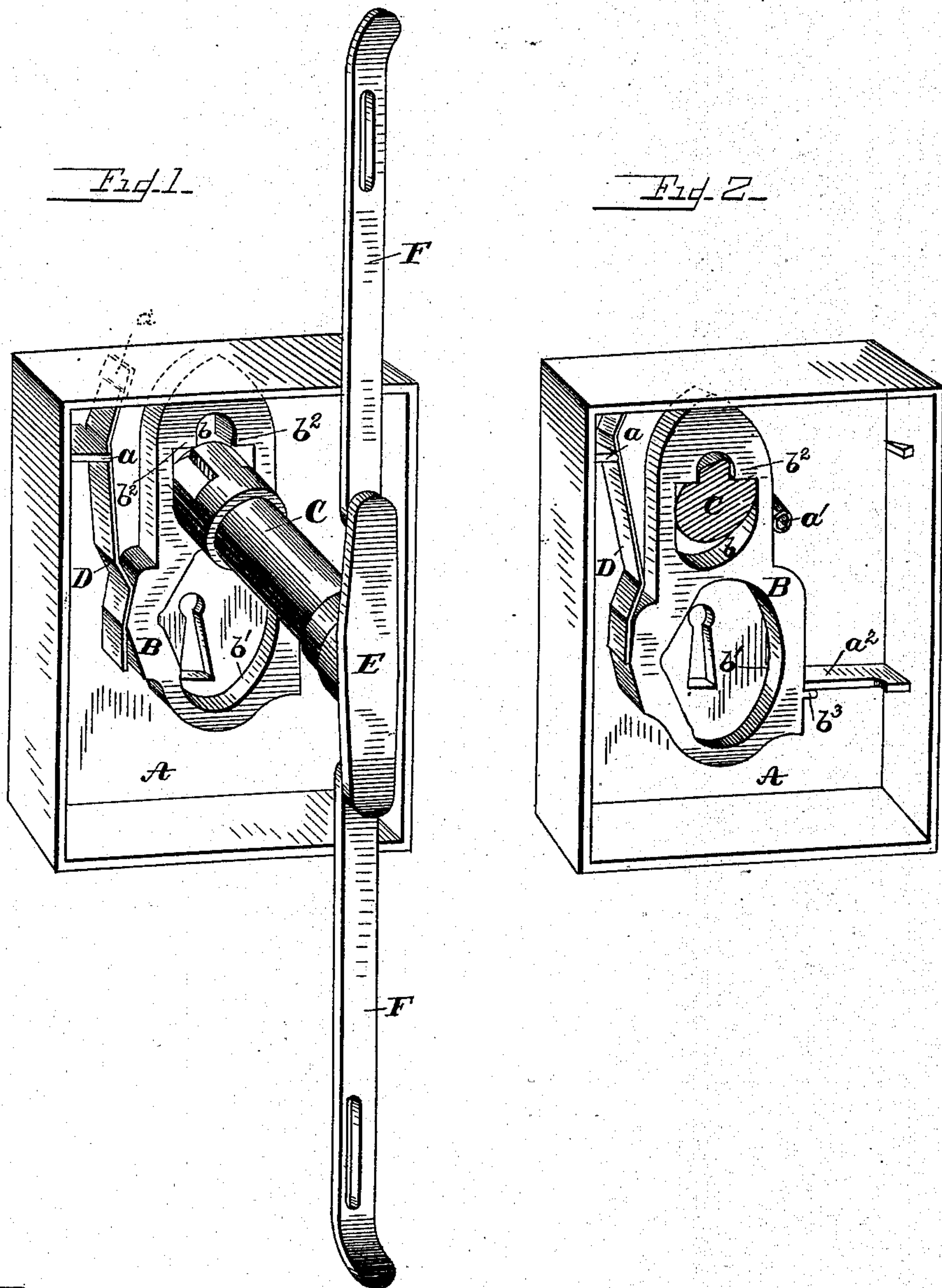
(No Model.)

W. A. WALKER.

LATCH.

No. 413,422.

Patented Oct. 22, 1889.



Witnesses

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UNITED STATES PATENT OFFICE.

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LATCH.

SPECIFICATION forming part of Letters Patent No. 413,422, dated October 22, 1889.

Application filed May 17, 1888. Serial No. 274,185. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. WALKER, a citizen of the United States, residing at Racine, in the county of Racine and State of Wisconsin, have invented certain new and useful Improvements in Locking Mechanism; 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 is an improvement in locking mechanism of the class wherein two or more locking-arms are employed having beveled portions on their outer ends for drawing the door tightly into its seat and forming an air-tight joint; and it consists in certain features of construction whereby a cheap, durable, and effective locking device is secured.

I have illustrated my invention in the accompanying drawings, and said invention is fully disclosed in the following specification and claim.

In the drawings, Figure 1 is a perspective view of a lock, showing the back plate removed and the parts in position. Fig. 2 is a similar view with parts removed and the spindle in section.

A is the lock-case, of any preferred form, and is provided on its interior with the projections or lugs a and a' , the latter of which form guides for a locking plate or slide B. The locking plate or slide B is formed with an aperture b in one end to permit the passage of the spindle C of the locking device, and a larger aperture b' to enable it to be moved by a key. The spindle and the upper face of aperture b are of such form that when brought into contact the spindle is held from rotation by the locking-plate, and any preferred construction may be employed. In the present instance the upper face of this aperture is provided with shoulders b^2 , adapted to fit into angular recesses in the upper face of the spindle when the plate has been forced downward by the key and prevent the spindle from rotating.

A spring D is held in position to engage the lock-plate by the lugs a , and said plate is provided with a projection b^3 , which is so formed as to engage the lug a^2 of the lock-case and prevent the lock-plate from moving longitudinally. When, however, the key is introduced into the lock and turned, it will engage the surface of the aperture b' adjacent to the spring D, and will move the plate laterally, so that the projection b^3 will be disengaged from the lug a^2 . A further movement of the key will move the plate longitudinally to lock or release the spindle C.

The spindle C extends through lock and is provided on its inner end with a T-head E, to which the locking-arms F F are pivotally secured. These arms are provided at some point, preferably near their free ends, with a slot, through which passes a headed bolt or screw, which serves to guide them and keep them from moving away from the door. The outer end of the spindle is provided with a knob or handle, and when said spindle is rotated the arms F F will be retracted or pushed forward, thereby releasing or securing the door. The arms F are preferably provided with beveled ends, the points of which will first impinge against the door-casing, and as they are farther advanced draw the door tight against the same. They may be made to engage apertures in the casing, if preferred. This forms a very desirable locking means where a tight joint is desired, and of especial value in refrigerators and similar articles. The lock-plate B may also be applied to an ordinary spring-latch by forming the actuating-spindle with recesses adapted to be engaged by the shoulders b^2 of the lock-plate, and by this construction a very cheap and effective lock may be secured.

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

In a locking mechanism for doors, the combination, with two sliding bars, of a spindle provided with T-shaped arms engaging said bars, said spindle being circular in cross-section and provided with angular recesses, of a single locking-plate provided with shoul-

ders for engaging the recesses in said spindle, said plate having also an aperture provided with bearing-faces to receive a key to actuate the same, and a projection b^3 , a spring
5 bearing against one side of said plate, and projections $a' a^2$ upon the opposite side of the plate, substantially as described.

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

WILLIAM A. WALKER.

Witnesses:

CHARLES H. LEE,

H. C. CASE.