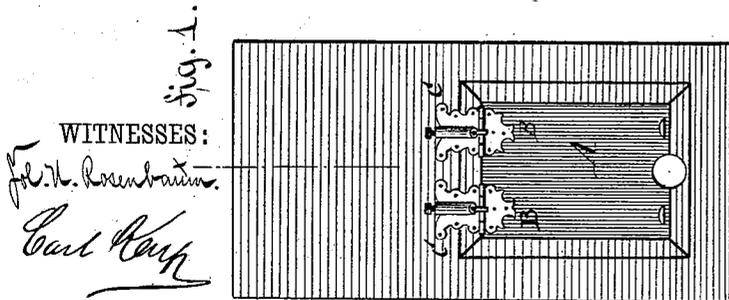
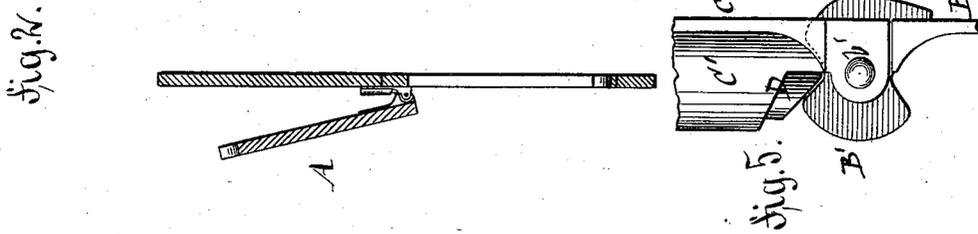
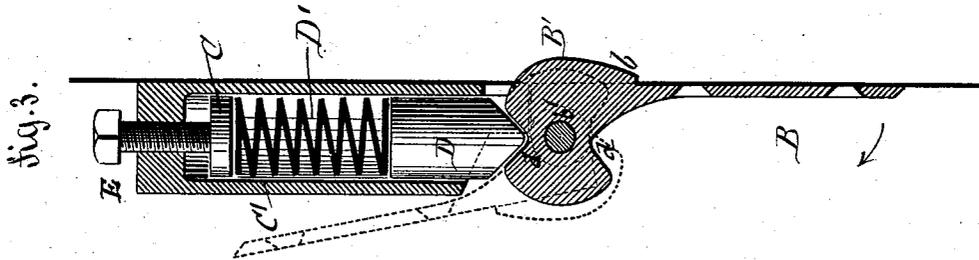
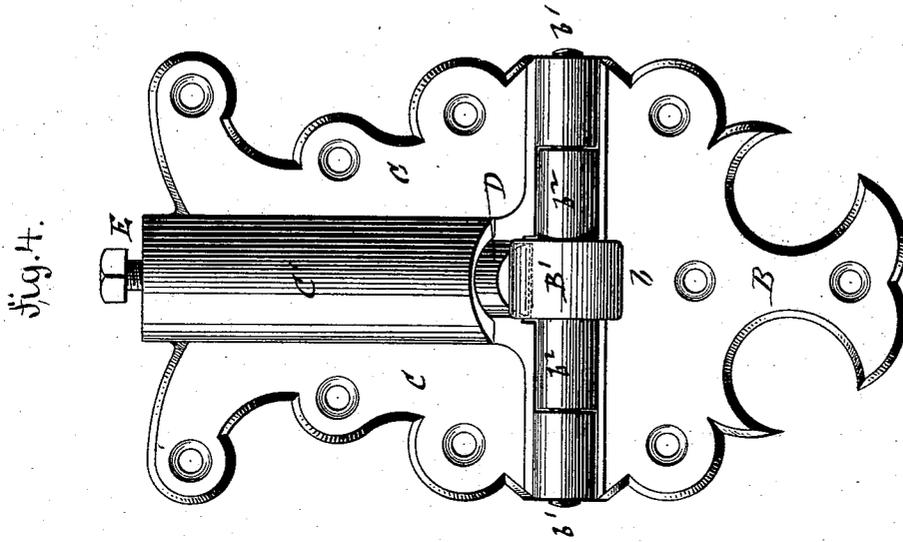


(No Model.)

J. WOLF.
LOCK HINGE.

No. 324,444.

Patented Aug. 18, 1885.



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UNITED STATES PATENT OFFICE.

JOSEF WOLF, OF HOBOKEN, NEW JERSEY.

LOCK-HINGE.

SPECIFICATION forming part of Letters Patent No. 324,444, dated August 18, 1885.

Application filed December 10, 1884. (No model.)

To all whom it may concern:

Be it known that I, JOSEF WOLF, of Hoboken, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Lock-Hinges for Doors, of which the following is a specification.

This invention has reference to an improved lock-hinge for refrigerator and other doors; and the invention consists of a lock-hinge one leaf of which is provided with a notched eccentric, and of a second leaf having a spring-actuated bolt guided in a socket of said leaf, said bolt locking into the notch of the eccentric. The tension of the bolt-actuating spring is adjusted by a disk and a set-screw that passes through the closed end of the socket and has an enlarged exterior head.

In the accompanying drawings, Figure 1 represents a front view of a refrigerator-door with my improved lock-hinges. Fig. 2 is a vertical transverse section on line *x x*, Fig. 1; Fig. 3, a vertical transverse section of the lock-hinge drawn on a larger scale, and showing the open position of the hinge in dotted lines. Fig. 4 is a front elevation of my improved lock-hinge, and Fig. 5 a side elevation of the same.

Similar letters of reference indicate corresponding parts.

A in the drawings represents a refrigerator or other door, to which is attached one of the leaves, B, of my improved lock-hinge. The leaf B is provided with an eccentric cam, B', that may either be cast integral with the leaf B or made separate from the same, and retained thereon by means of a recess and extension-heel, *b*, in connection with the pintle *b'* and adjoining sleeves *b''* of the leaf B, as shown in Fig. 4. The eccentric cam B' is provided at diametrically-opposite sides with tapering notches *d*, for the locking-bolt D of the second leaf C.

The leaf C is attached to the frame of the door and provided with a central guide-socket, C'. The locking-bolt D is guided in the socket C' and made tapering at its outer end. The

bolt D is forced into the notched cam B' by a strong spiral spring, D', that is interposed between the inner end of the bolt D and the closed end of the socket C'. The tension of the spring D' is adjusted by means of a set-screw, E, the shank of which passes through the closed end of the socket C' and bears by its inner end on a disk, C'', that presses on the end of the spiral spring D'.

The outer end of the screw E is provided with a square or other head, *e*, by which it can be easily taken hold of by a wrench or other device for being turned, so as to adjust the tension of the spiral spring D'.

The advantage of my improved lock-hinge for doors is that the door can be locked into open position by the spring-bolt without requiring special locking devices, so as to dispense with hooks and other fastening devices.

In refrigerator-doors the lock-hinges support the door in upwardly-inclined position, as shown in dotted lines in Fig. 2, as the spring-bolts enter the upper notches of the cams. By exerting a downward pressure on the door the tension of the spring is overcome and the bolts released from the cams and passed along the same until the spring-bolts engage the opposite notches of the cams, and hold thereby the door in closed position without requiring a separate locking device.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination of a leaf having a notched cam, a second leaf hinged to the first leaf and provided with a guide-socket, a locking-bolt guided in said socket, a disk guided in the socket, a spiral spring interposed between the locking-bolt and disk, and a set-screw bearing on the disk for adjusting the tension of the spring, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

JOSEF WOLF.

Witnesses:

CARL KARP,
SIDNEY MANN.