

(No Model.)

W. L. WILKINS.
LOCK.

No. 419,903.

Patented Jan. 21, 1890.

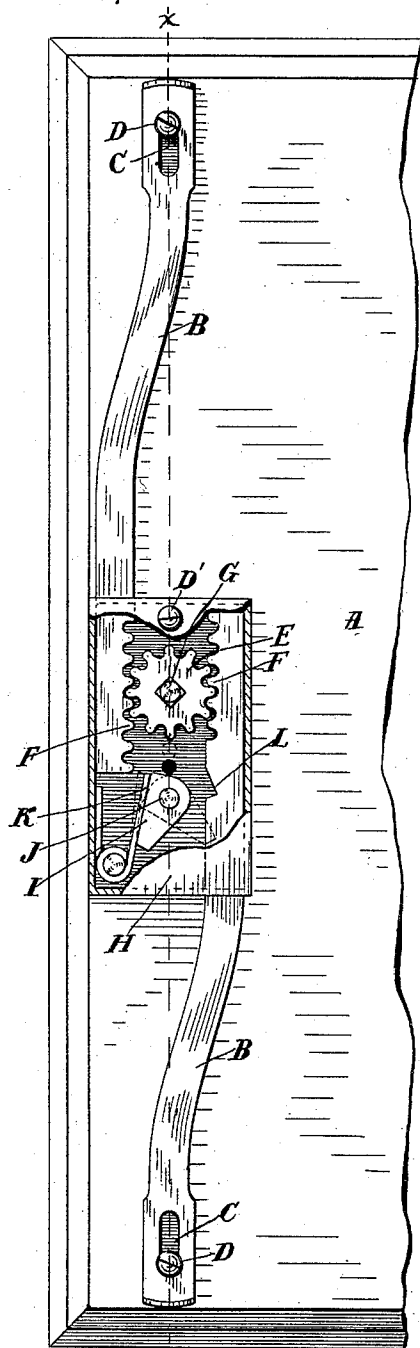


FIG. 1.

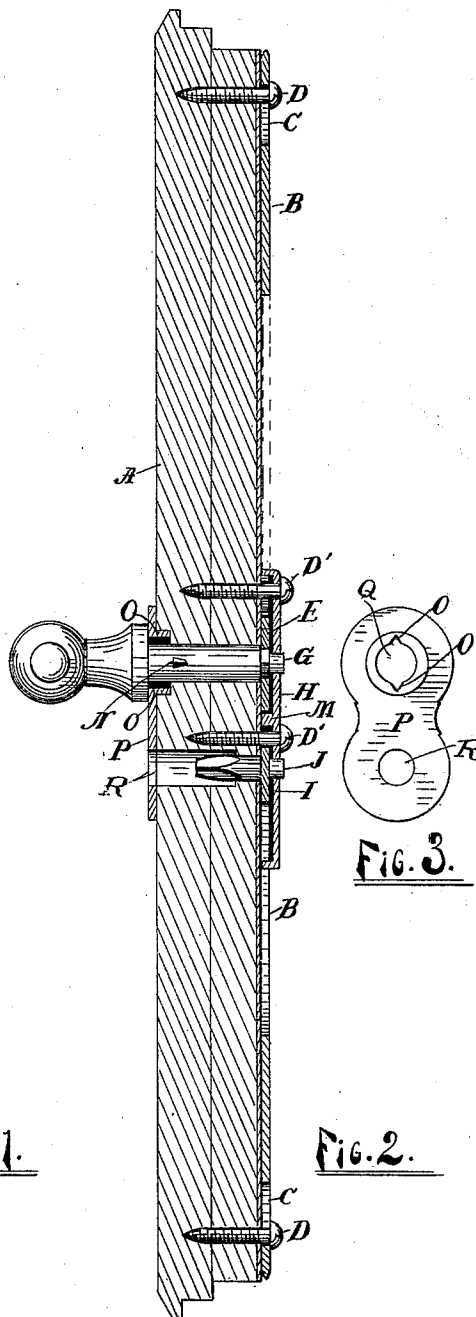


FIG. 2.

Witnesses X

Van Buren Hillyard,
Sarepta Specht

Inventor

Walter L. Wilkins.

By his Attorneys

R. M. Lacey

UNITED STATES PATENT OFFICE.

WALTER L. WILKINS, OF HASTINGS, MICHIGAN.

LOCK.

SPECIFICATION forming part of Letters Patent No. 419,903, dated January 21, 1890.

Application filed October 4, 1889. Serial No. 326,050. (No model.)

To all whom it may concern:

Be it known that I, WALTER L. WILKINS, a citizen of the United States, residing at Hastings, in the county of Barry and State of Michigan, have invented certain new and useful Improvements in Locks; 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 the letters of reference marked thereon, which form a part of this specification.

This invention relates to doors, and aims to provide simple and efficient means for locking the same top and bottom and drawing it close against the door-jamb, thereby preserving a close joint, which is a desideratum in refrigerator-doors, thereby preventing an unnecessary consumption of ice to maintain the provision-chamber at the required temperature.

The improvement consists of the peculiar construction and combination of the parts, which will be hereinafter more particularly described and claimed, and which are shown in the annexed drawings, in which--

Figure 1 is a rear elevation, parts being broken away, of the invention, showing its application. Fig. 2 is a section on the line X X of Fig. 1. Fig. 3 is a front view of the knob and key-plate.

A represents a door of ordinary construction, to which the invention is applied.

H is the case, secured to the door by screws D D', and which incloses the operating parts of the lock. The knob-shaft G passes through the door and case H, and is fitted at its inner end in the pinion E.

B and B are the bolts, which have teeth F on their opposing edges to mesh with the teeth on the pinion E. The inner edges of these bolts pass through opposite ends of the case H, and are placed on opposite sides of the pinion E, as shown. The outer edges of the bolts are bent toward each other to bring them in the same vertical line, and are held to the door by the screws D, which pass through slots C in the bolts. The ends of the bolts are curved and the sides are beveled.

The dog I, secured to the inner end of the spindle J, is adapted to engage with a notch L in the bolt B and hold the door locked when the bolts are projected. The spring K, between the front side of case H and the front edge of dog I, is adapted to press on the said dog and hold it either in engagement with the bolt B or out of the way. The top and the front side of the dog is straight, and when the spring bears on the front edge of the dog the latter is held out of engagement with the bolt, and when the dog is turned so that the spring presses on the top edge of the dog the latter is held in engagement with the bolt. The latter position is shown by dotted lines in Fig. 1. The spindle J extends into the door, and is squared on its front end to receive a key by which it is turned to throw the dog.

The front plate P has two openings Q and R, which register with the knob-spindle and the dog-spindle, respectively. The opening Q is re-enforced on its inner side by an annular rim, the latter having grooves o o, to permit the passage of the lugs N on the knob-spindle, which, when passed through the said opening Q and given a partial turn to throw the lugs N out of register with the notches o o, is held in place.

By operating the knob-spindle the pinion E is turned and projected or retracts the bolts, according as the said spindle is turned to the right or left. When the bolts are projected, they are held fast by throwing the dog I so it will engage with the notch L in the bolt. The dog is operated by a suitable key, (not shown,) which is inserted in the opening R and fitted on the spindle J.

Having fully described my invention, what I claim, and desire to secure by Letters Patent, is--

1. In a door-locking mechanism, the combination, with two oppositely-acting bolts B B, having teeth F, one of said bolts having notch L, and the knob-shaft having pinion E, which meshes with the said teeth F, of the key-operated tumbler I, adapted to engage with the said notch L, having its top and front edges straight, and the spring K, for pressing on the said edges of the tumbler for

holding it in and out of engagement with the said notched bolt, substantially as described.

2. The hereinbefore-specified door-locking mechanism, comprising case H, pinion E, knob-spindle G, having lugs N, the two bolts 5 B B, having their outer ends beveled and provided with slots C, and having their inner ends passing through opposite ends of case H on opposite sides of pinion E, and provided 10 with teeth to mesh with the said pinion; one of the bolts having notch L, the dog I, having spindle J, the spring K, for holding the said

dog either in or out of engagement with the notched bolt B, and the plate P, having openings Q and R, the opening Q having a flanged 15 rim on its inner side, which rim is provided with notches o o, substantially as and for the purpose set forth.

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

WALTER L. WILKINS.

Witnesses:

C. H. VAN ARMAN,
WALLACE C. KELLY.