

(No Model.)

J. CHANDLER.
LATCH.

No. 493,819.

Patented Mar. 21, 1893.

Fig. 1.

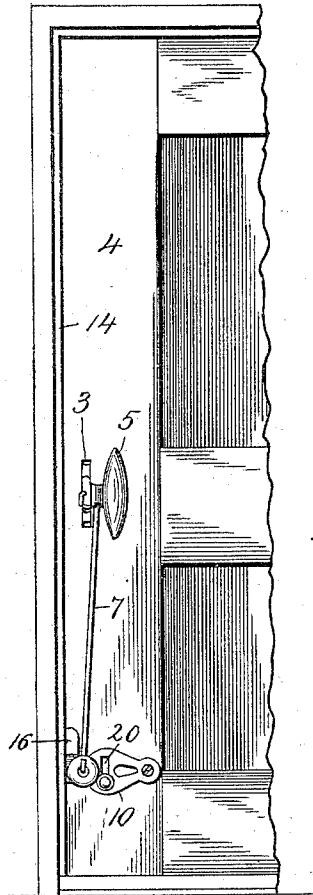


Fig. 2.

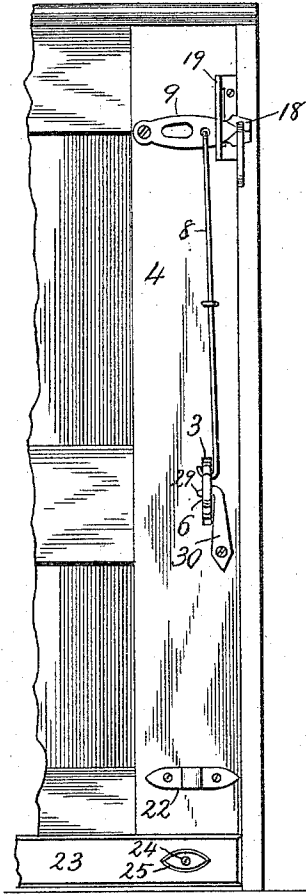


Fig. 3.

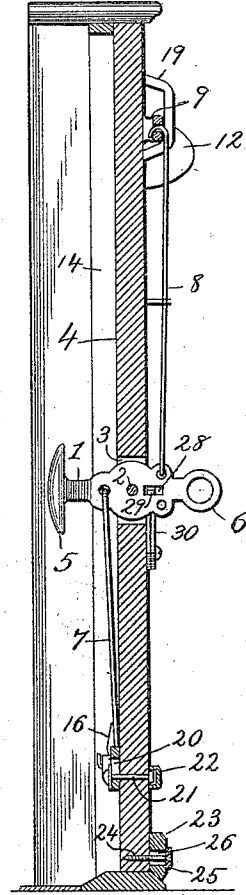


Fig. 4.

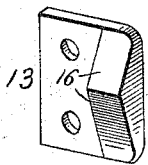


Fig. 5.

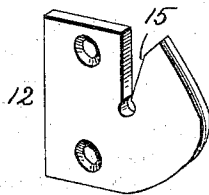
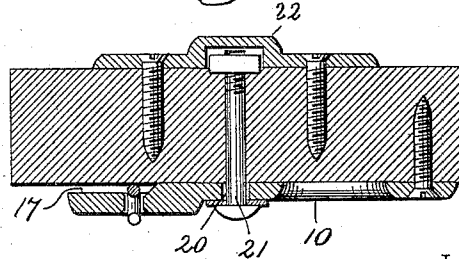


Fig. 6.



Witnesses

Wm. A. Schenck
N. H. Wiley

Inventor

Jesse Chandler.

By His Attorneys,

Cash & Co.

UNITED STATES PATENT OFFICE.

JESSE CHANDLER, OF AMES, KANSAS.

LATCH.

SPECIFICATION forming part of Letters Patent No. 493,819, dated March 21, 1893.

Application filed May 31, 1892. Serial No. 435,027. (No model.)

To all whom it may concern:

Be it known that I, JESSE CHANDLER, a citizen of the United States, residing at Ames, in the county of Cloud and State of Kansas, have invented a new and useful Latch, of which the following is a specification.

The invention relates to improvements in door latches.

The object of the present invention is to provide a door latch which will besides securely locking a door, be adapted to draw the door closely against the door jamb to effect a tight joint to exclude wind, rain, dust and the like.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings and pointed out in the claims hereto appended.

In the drawings—Figure 1 is an elevation of the front of a door provided with a latch constructed in accordance with this invention. Fig. 2 is a similar view of the inside of a door. Fig. 3 is a vertical sectional view. Fig. 4 is a detail perspective view of the lower bearing plate. Fig. 5 is a similar view of the upper bearing plate. Fig. 6 is a horizontal sectional view.

Like numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a handle lever pivoted by a screw 2 in a vertical slot 3 of a door 4 and arranged near the middle of the latter, and projecting from opposite sides of the door and provided at its ends with handles 5 and 6, and connected by rods 7 and 8 with latch levers 9 and 10 arranged on opposite sides of the door, and adapted to engage upper and lower keeper plates 12 and 13, whereby the door is locked. The door closes against a stop strip 14, and in order to effect a tight joint to exclude wind, rain, dust and the like, the upper and lower keeper plates 12 and 13 are provided with inclined faces 15 and 16, and the inner face 17 of the lower latch lever and the outer face 18 of the upper latch lever are oppositely beveled and are adapted to bear against the inclined faces of the upper and lower keeper plates, whereby the latch levers and the keeper plates form wedges adapted to draw the door closely against the stop strip of the door jamb.

The upper lever 9 is arranged in a keeper 19 which is secured to the inner face of the door, and which limits the swing of the latch plates, and by raising and lowering either end of the handle or operating lever the latch levers are operated. The latch levers are fulcrumed by bolts or screws arranged at their inner ends, and the lower latch lever is provided with a transverse slot 20 in which is arranged a bolt which limits the swing of the lower latch lever. The bolt 21 has its head arranged on the outer face of the lower lever between which and the head is interposed a washer, and the other end of the bolt is provided with a nut arranged on the opposite side of the door and covered by a plate 22, which is secured by screws, and which is provided with an indentation or depression to fit over the nut.

At the lower end of the door is represented a section of a weather strip 23, which is secured by a screw 24 and is provided with an opening 26 which permits a vertical adjustment of the weather strip. The opening is concealed behind a plate 25 which is arranged on the outer face of the weather strip. The lower edge of the weather strip is beveled to conform to the threshold and may be covered with sheet metal, and when the door is closed it is drawn tightly against the door sill and effectually excludes rain, snow, dust, wind and the like. The lower keeper plate 13 has its inclined faces formed by oppositely beveling the face 16 and the upper keeper plate has its inclined face or edge formed by a V-shaped notch.

The handle lever is provided at its inner side with an opening 28 which is adapted to be engaged by a tooth 29 of a pivoted latch bar 30 mounted on the inside of the door and adapted to hold the handle lever against movement. The rods which connect the latch levers with the handle levers have their ends hooked and fitting in perforations of the handle and latch levers.

What I claim is—

1. A latch for doors comprising an operating or handle lever extending through a door and projecting from opposite sides thereof, latch levers pivoted at one end and arranged on opposite sides of a door and provided at the other end with a beveled face, rods arranged on opposite sides of a door and con-

necting the latch levers with the handle or operating lever, and keeper plates to be engaged by the latch levers, substantially as described.

2. A door latch comprising an operating or
5 handle lever provided at its ends with handles and extending from opposite sides of a door, latch levers arranged on opposite sides of a door and pivoted at one end and provided at
10 their other ends with inclined faces, rods arranged on opposite sides of a door and connecting the latch levers with the operating or handle lever, keeper plates provided with inclined faces adapted to be engaged by the
15 levers, whereby a door is drawn closely against its door frame, substantially as described.

3. In a latch, the combination of a handle

lever pivoted intermediate its ends and projecting from opposite sides of a door and provided at its inner side with an opening a pivoted latch provided with a tooth arranged to
20 engage the opening to secure the handle lever against movement, latch levers, and rods arranged on opposite sides of a door and connecting the latch lever with the handle lever, substantially as described.

25 In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JESSE CHANDLER.

Witnesses:

M. E. BOSWORTH,
R. S. BOSWORTH.