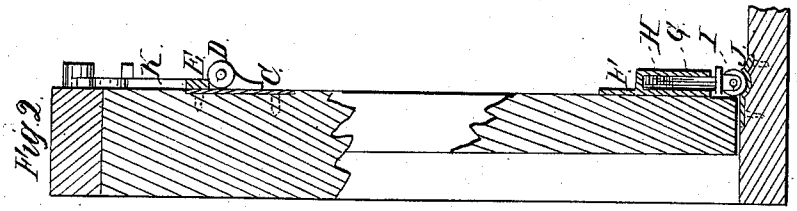
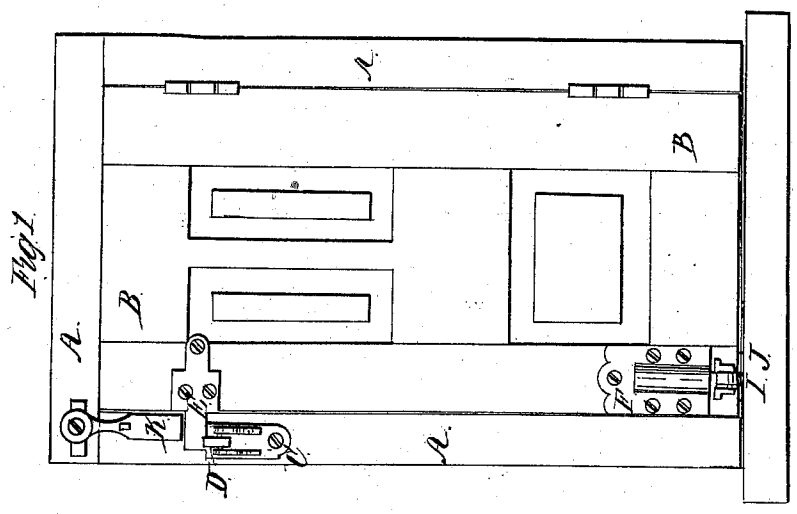
F. W. Gammell,

Latch,

No. 98,684. Patented Jan. 11, 1870.





Witnesses:
Geo. H. Mabee
Jno. A. Brooks

Inventor,
F. W. Gammell
Munn & Co

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

United States Patent Office.

FREDERICK W. GAMMELL, OF SPRING VALLEY, IOWA.

Letters Patent No. 98,684, *dated January* 11, 1870.

IMPROVED LATCH.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, FREDERICK W. GAMMELL, of Spring Valley, in the county of Decatur, and State of Iowa, have invented a new and improved Door-Rest; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a front view of a door, to which my improved rest has been applied.

Figure 2 is a detail sectional view of the same.

Similar letters of reference indicate corresponding parts.

My invention has for its object to support the door when closed, so as to prevent the door from sagging or warping, and which shall be simple in construction and easily applied to the door.

A represents the door-casing, and B represents the door, about the construction of which parts there is nothing new.

C is a plate, which is let into the casing A, so that its outer surface may be flush with the surface of the said casing.

Upon the outer side of the plate C are formed two brackets, having notches in their upper edges, to serve as bearings for the roller D.

E is the catch, which is securely attached to the door B, and which should be so arranged, that when the door is closed, it may just pass the axis of the roller D, and thus tend to revolve said roller toward the door-casing, and thus hold the door to its place.

One or more of the rests C D E may be used, according to the character of the door, and they should be placed in the positions best calculated to support the door.

When applied to the top or bottom of the door, the roller-axle should be stationary, with the roller revolving upon it, to prevent the said roller from dropping out.

F is a cap or socket-plate, attached to the door, near its forward corner.

G is a shaft or stem, which enters the socket of the plate F, and is held out by a coiled spring, H, placed within the said socket.

To the lower or projecting end of the stem G is pivoted a roller, I, the face of which should be slightly rounded off, to prevent the said roller from cutting the carpet or floor along which it rolls.

J is a plate, which is attached to the carpet-strip, and which is made with a sink or recess, so that the roller I, when the door is closed, may incline to roll down into said sink or recess, and thus hold the door to its place.

K is a lock, which is pivoted to the casing A, in such a position that when the door is closed, it may be turned down against the latch E, and thus lock the door.

The plate C should extend up above the latch E, so that it may serve as a washer to prevent the lock K from cutting the door-casing.

I am aware that a patent was granted to B. Hendrickson, December 15, 1868, in which is shown a gate, with a friction-roller upon it, acting in combination with a plate, recessed and inclined on each side, but I have no intention of claiming the same.

Having thus described my invention,

I claim as new, and desire to secure by Letters Patent—

1. A door and casing, A B, provided with the fixed latch E, fixed plate C, and friction-roll D, arranged and operating together in the manner described.

2. A door and casing, A B, provided with the fixed latch E, fixed plate C, friction-roll D, and swinging arm K, arranged as and for the purpose specified.

FREDERICK W. GAMMELL.

Witnesses:

A. C. RECK,

HOWEL CHANDLER.