

ALBERT D. JUDD.

Improvement in Cupboard-Latches.

No. 114,152.

Patented April 25, 1871

fig. 1.

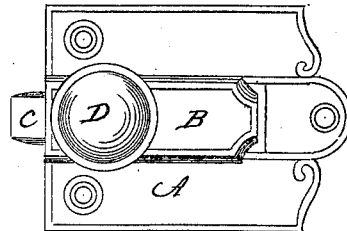


fig. 2.

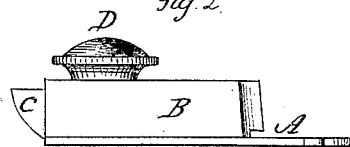


fig. 3.

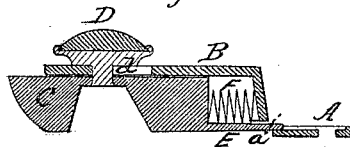
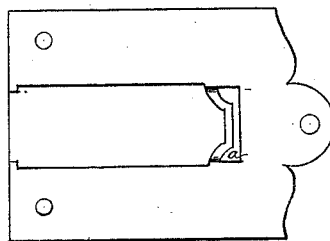


fig. 4.



Witnesses
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ALBERT D. JUDD, OF NEW HAVEN, CONNECTICUT.

Letters Patent No. 114,152, dated April 25, 1871.

IMPROVEMENT IN CUPBOARD-LATCHES.

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, ALBERT D. JUDD, of New Haven, in the county of New Haven and State of Connecticut, have invented a new Improvement in Cupboard-Latches; and I do hereby declare the following, when taken in connection with the accompanying drawing and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawing constitutes part of this specification, and represents in—

Figure 1, a front view;
Figure 2, a side view;
Figure 3, a longitudinal central section; and in
Figure 4, an under-side view of the plate and case, the bolt removed.

This invention relates to an improvement in that class of cupboard-latches in which a spring is arranged within the case to throw the latch forward.

In this class of latches heretofore the latch-bolt has been constructed with a round tail-piece passing through a perforation drilled in the rear end of the case, and over this tail-piece a spiral spring has been set to force the bolt outward. This construction necessitates the drilling of the rear end of the case and fitting the tail-piece to the perforation, to work freely therein and support the latch.

The object of my invention is to avoid this labor and construct the latch without drilling the case or fitting the tail-piece; and

It consists in forming the latch-bolt with a flat tail-piece to pass through an opening left in the case at the plate, the said tail-piece forming a covering for the chamber within the case, between the end of the case and the end of the bolt, into which chamber the spring is placed and retained in position by the tail-piece covering the chamber, as more fully hereafter described.

A is the plate, of any desirable form or design, and provided with suitable means for securing to the door, or whatever it may be desired to confine, the latch.

B is the case formed upon or attached to the plate, and of any desirable shape or design.

The plate is left open beneath the case, as denoted in fig. 4, and at the junction of the rear end of the case and plate a recess, *a*, is formed in casting.

C is the bolt constructed to fit into the case, and provided with a knob or handle, D, upon the outside of the case, and secured to the bolt through a slot, *d*, in the case in the usual manner for this class of latches.

The bolt is also constructed with a flat tail-piece or guide, E, projecting toward the rear, so as to pass through the recess *a* at the rear of the case, and of sufficient length to rest upon the plate when the bolt is thrown forward, as in fig. 3, which retains the rear end of the bolt in position, the bolt proper being shorter than the case, so as to form a chamber within the case between the end of the case and rear end of the bolt, the said chamber being closed with a flat portion, F, of the bolt, as in fig. 3.

Previous to inserting the bolt a spiral or other suitable spring is placed in the said chamber, as denoted in fig. 3, the tendency of which is to force the bolt forward. The latch is operated in the usual manner.

The bolt and case are cast so as to require no finishing or labor to be performed preparatory to the fitting of the spring as in this class of latches as heretofore constructed; hence the cost is proportionately reduced.

I claim as my invention—

The arrangement of the latch C within the case B, constructed so as to form the spring chamber F, and provided with the flat guide E extending through the opening *a* in the case, and so as to retain the spring in the chamber; substantially as herein described.

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Witnesses:

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