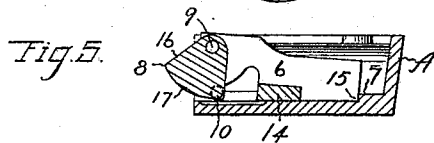
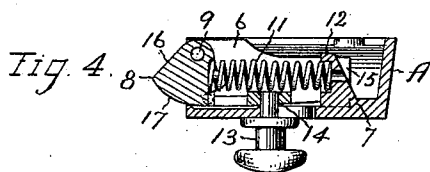
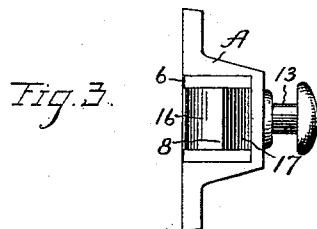
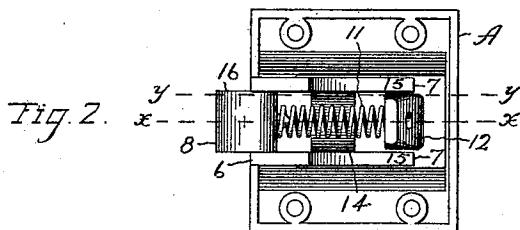
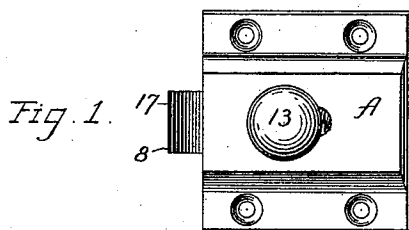


(No Model.)

H. G. VOIGHT.
LATCH.

No. 574,645.

Patented Jan. 5, 1897.



Witnesses

W. B. Stimpert
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Inventor

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UNITED STATES PATENT OFFICE.

HENRY G. VOIGHT, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO THE
RUSSELL & ERWIN MANUFACTURING COMPANY, OF SAME PLACE.

LATCH.

SPECIFICATION forming part of Letters Patent No. 574,645, dated January 5, 1897.

Application filed October 15, 1896. Serial No. 608,936. (No model.)

To all whom it may concern:

Be it known that I, HENRY G. VOIGHT, a citizen of the United States, residing at New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Cupboard-Latches, of which the following is a specification.

My invention relates to improvements in cupboard-latches; and the objects of my improvements are simplicity and economy in construction and efficiency and convenience of operation.

In the accompanying drawings, Figure 1 is a front elevation of my latch. Fig. 2 is a rear elevation of the same. Fig. 3 is an edge view of the same, showing the outer end of the latch-bolt. Fig. 4 is a longitudinal section on the line *xx* of Fig. 2 with the parts in their normal position, and Fig. 5 is a longitudinal section on the line *yy* of Fig. 2 with the latch-bolt in the position it has when the keeper is pressing upon the holding-face of the latch-bolt.

A designates the case, which in the main may be of any ordinary form, the same being provided with proper guides for the latch-bolt slide 6 and with stop-shoulders 7. The latch-bolt consists of the said latch-bolt slide and the beveled nose 8, pivoted to said slide by the pin 9, Figs. 4 and 5. Said beveled nose is limited in its outward-swinging movement by side projections, (indicated by the broken circle 10, Fig. 5,) which engage shoulders on the sides of the slide. A spiral spring 11 has one end resting on the inner face of the beveled nose 8 and its other end on a stud 12 of the case.

A companion application of even date herewith, Serial No. 608,937, filed October 15, 1896, shows, describes, and claims a similar latch-bolt, and this application is subordinate thereto.

A knob or handle 13 has its shank rigidly secured to the cross-bar 14 of the slide, whereby said slide and knob move together as if in one piece. That portion of the slide which

faces the front broadside of the case is slabbbed off or made scanty from the cross-bar 14 to its heel 15, whereby said slide, in addition to sliding longitudinally in the case, may rock or tip slightly, as if fulcrumed on said cross-bar.

The pressure of the spring will tend to hold the parts normally in the position shown in Figs. 1 to 4. Upon closing the door the beveled face 16 of the beveled nose 8 will engage the keeper and force the said beveled nose inwardly to pass said keeper without moving the slide. The relations of the said beveled nose and slide to the spring are such that the beveled nose yields under less pressure than that required to move the slide. After the latch-bolt and keeper engage with each other any outward pressure of the door is thrown upon the holding-face 17 of the beveled nose, and such pressure has a tendency to rock or tip the slide from the position shown in Fig. 4 to that shown in Fig. 5, in which the heel 15 of the latch is in front of the stop-shoulder 7 of the case, so that the slide is prevented from being forced inwardly to disengage the latch-bolt. Upon taking hold of the knob or handle 13 to move the latch-bolt inwardly the first effect of such pressure on the knob will be to rock or tip the slide to disengage its heel from the stop-shoulders, and then the latch-bolt will slide back in the ordinary manner, the unlocking of the slide and the pushing in of the latch-bolt seemingly requiring but one operation.

I claim as my invention—

The combination of the case having stop-shoulders, with the latch-bolt slide adapted to rock and engage said shoulders and having an operating-handle moving with said slide, the beveled nose pivoted to said slide, and a spring substantially as described.

HENRY G. VOIGHT.

Witnesses:

T. S. BISHOP,
M. S. WIARD.