

(Model.)

H. L. ROBERTSON.

SASH FASTENER.

No. 255,194.

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Fig 1

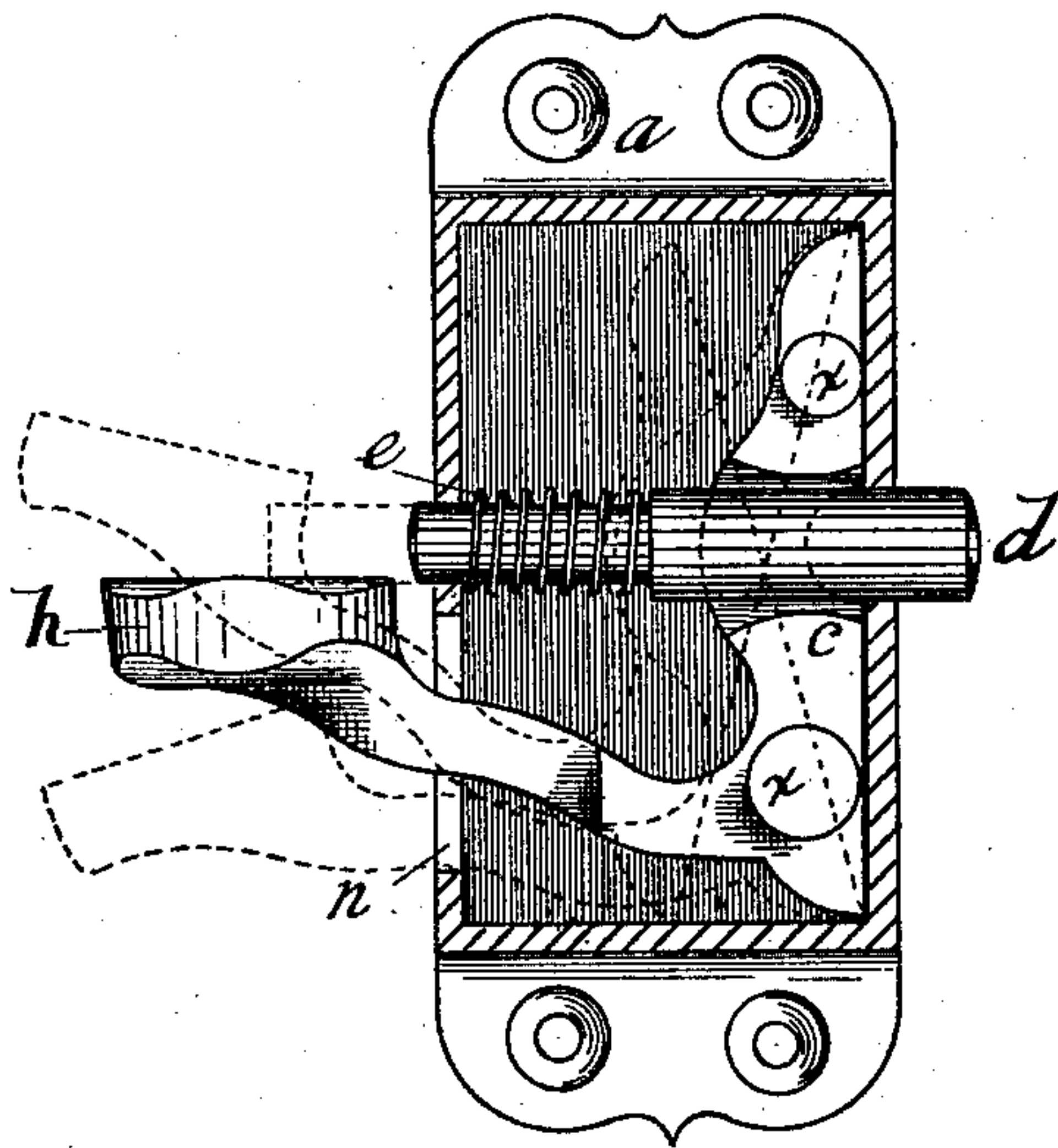


Fig 2.

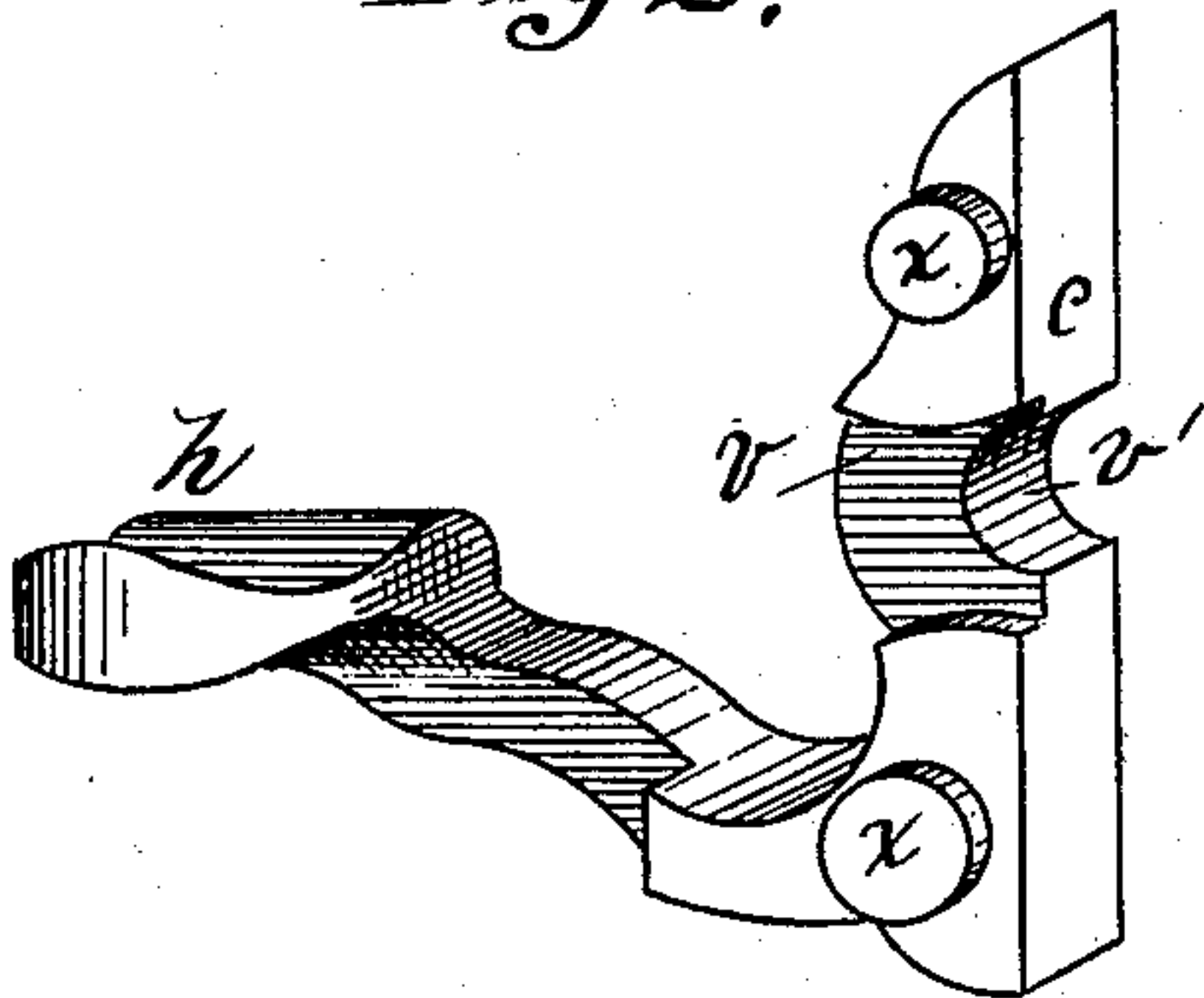


Fig 3.



Fig 4.



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SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 255,194, dated March 21, 1882.

Application filed August 31, 1881. (Model.)

To all whom it may concern:

Be it known that I, HERBERT L. ROBERTSON, a citizen of the United States, residing at Brookfield, in the county of Worcester and State of Massachusetts, have invented new and useful Improvements in Window-Stops, of which the following is a specification.

This invention relates to the details of the construction of an improved window-stop, the object being to provide such a stop in which the bolt-lever is double-acting—that is to say, that whether it be lifted or drawn down the bolt will be drawn back to permit the window to be raised or lowered.

In the drawings forming part of this specification, Figure 1 is a front elevation of a window-stop constructed according to my invention, the outer side of the case being removed to show the operative parts and their relative positions therein. Fig. 2 is a perspective view of the rocking bolt-lever, and Figs. 3 and 4 are views of the bolt in two positions.

In the drawings, *a* is the window-stop case. *c* is the rocking bolt-lever. *d* is the bolt; and *e* is a spring.

The case *a* is of suitable metallic construction, adapted to receive within it from the under side said bolt and spring and lever. The sides of the case *a* are perforated on a line to permit of passing the bolt *d* through them, as in Fig. 1, spring *i* being slipped over the end of said bolt, one end bearing against a shoulder thereon and the other against the inner side of case *a*, as shown, thus tending to drive the bolt *d* to the right and project its larger end beyond the side of the case. Said bolt *d* has a transverse cut, *o*, across one side of it, one end of said cut being straight or at right angles to the axis of said bolt and the opposite end made of curved form from side to side, as shown.

The rocking bolt-lever *c* has its straight-faced arm made of about the inside length of case *a* and of proper thickness to allow said case to be closely fastened to the window-sash when said lever is within it. One side of the said straight-faced arm of lever *c* has two bosses, *x x*, thereon, which have a bearing against the inner face of the removed side of case *a*, and transversely across the side of said straight arm on which said bosses are is made a cut, *v*, whose edges are curved, as shown,

and at right angles to said cut *v* is formed a second half-round cut, *v'*, and a thumb-piece arm, *h*, on said lever projects nearly at right angles from its lower end.

Bolt *d* having been placed in case *a*, the rocking lever *c* is next placed therein in the position shown in Fig. 1, its arm *h* being passed through one side of said case, which is cut away to form a vertical slot, *n*, to allow said arm to have a vertical movement. When said rocking lever *c* is laid into case *a* the cut *v* on said lever and the cut *o* on bolt *d* coincide in position; but cut *v* is somewhat wider than the diameter of said bolt at the bottom of cut *o* therein, while the length of the cut *o* is about the same as the width of said arm at the base of the cut *v* therein. Thus the straight arm of lever *c* is permitted to have a free motion by the side of bolt *d*, as hereinafter described.

The dotted lines in Fig. 1 indicate the positions of the lever *c* when arm *h* is lifted or drawn down, its normal position being that there shown in full lines—that is to say, having the face of its straight arm held against the side of case *a* by bolt *d*, the latter being actuated by spring *e*. Thus it will be seen that when arm *h* is lifted lever *c* rocks on the upper end of its straight arm, and when said arm is drawn down said lever rocks on the lower end of said straight arm, in both cases producing precisely the same effect on bolt *d*—that is, drawing it back—and when arm *h* is released spring *i* restores the parts to their normal position, as shown in Fig. 1.

This window-stop is adapted to operate in a window-frame having perforations to receive the end of bolt *d* or with projecting bolt-stops secured upon the face of said frame in the ordinary way.

What I claim as my invention is—

In a window-stop, the combination, with case *a*, perforated to receive bolt *d*, and having the slot *n* therein, of the rocking lever *c*, provided with arm *h*, bolt *d*, having the cut *o* therein, in which said lever *c* engages, and spring *e*, substantially as set forth.

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