J. W. DANE.
Drawer-Support.

No. 203,894. Patented May 21, 1878.

Fig: 1.

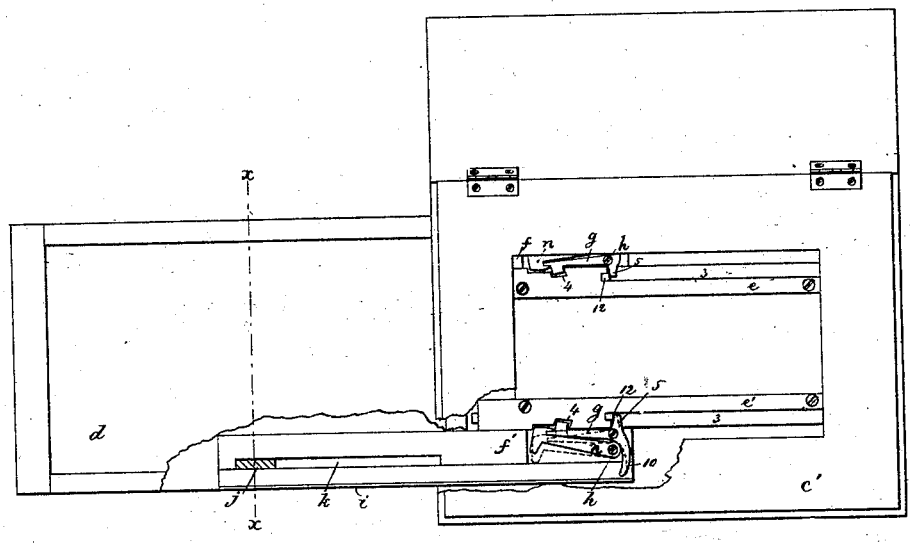


Fig: 2.

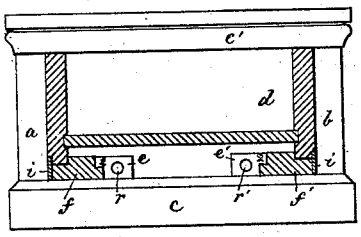


Fig: 3.

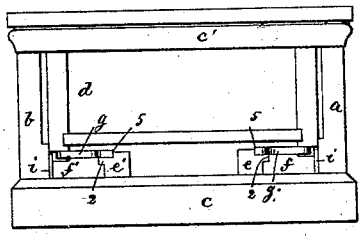


Fig: 4.

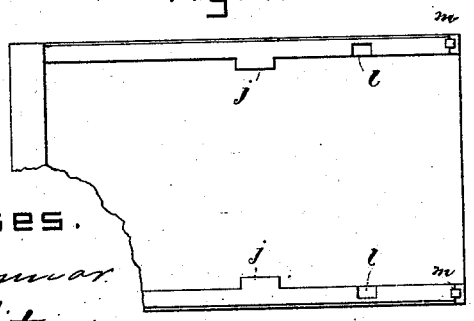
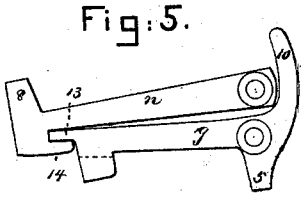


Fig: 5.



Witnesses.
L. F. Conmar.
N. E. Whitney

Inventor.
Joseph W. Dane
by Crosby & Gregory Atty.

UNITED STATES PATENT OFFICE.

JOSEPH W. DANE, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN DRAWER-SUPPORTS.

Specification forming part of Letters Patent No. **203,894**, dated May 21, 1878; application filed April 29, 1878.

To all whom it may concern:

Be it known that I, JOSEPH W. DANE, of Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in Drawer-Supports, of which the following is a specification:

This invention relates to improvements in drawer-supports; and consists in slides upon which the under side of the drawer rests, combined with locking-levers to lock the slides in their guideways when the drawer is pulled out, and drawer-engaging devices or levers to engage the drawer and cause the slides to move outward with the drawer.

Figure 1 represents in top view a drawer pulled out to show the slides and their locking and drawer-engaging devices, the slides being locked in position; Fig. 2, a section on the line *x x;* Fig. 3, a rear end view of Fig. 1; Fig. 4, a bottom view of the drawer; and Fig. 5 shows the locking-lever and drawer-engaging device removed.

The frame *a b c c'* is supposed to be a portion of a desk or any other article in which the drawer *d* is to be placed.

Attached to the portion *c* are two strips, *e e'*, provided with projections 2 to hold down the slides *f f'*, and cut away at top as shown at 3, and notched, as at 4, for the reception of the lugs 5 and points or hooks of the locking-levers *g*, they being attached to the slides by screws *h*.

The slides *f f'* are grooved at top, and provided at their sides with strips *i i*, preferably of metal, to receive the lower edges of the side pieces of the drawer, as shown in Fig. 2, so that the drawer and slides are prevented from moving laterally.

The lower edges of the side pieces of the drawer are notched, as at *l*, to receive the projections 8 of the drawer-engaging devices *n* pivoted to the slides, when the pins *m* on the drawer, in its backward movement, act upon the heels 10 to turn the locking-levers *g* and withdraw their hooks from the notches 4 in the guide-pieces *e e'*, the withdrawal of the hooks of the lever *g*, as shown in dotted lines, Fig. 1, releasing the slides and permitting them to move backward with the drawer.

When the drawer is pulled out from its closed position, the projections 8 of the drawer-engaging lever or device *n* are engaged with the notches *l*, and the drawer carries out the slides with it; but as the projections 5 of the locking-levers meet the stop-pins 12, preferably of rawhide or other non-sonorous material set in the guides, such levers are turned, and through the toe-pieces 13, which engage behind lugs 14 of the drawer-engaging levers, such levers are disengaged from the drawer, and the hooks of the locking-levers are thrown into the notches 4 of the guides, thereby locking the slides far enough outward to support the drawer upon their upper sides.

Projections *j* at the under side of the drawer enter slots *k* at the sides, and check the outward movement of the drawer before the rear end of drawer passes beyond the portion *c'*.

The ends of the guides next the front ends of the slides are provided, preferably, with non-sonorous buffers *r*, to obviate noise when the drawer is closed.

In this my invention it will be noticed that the drawer is sustained by slides and guides against its under side, and that the bottom of the drawer, for the whole of its movement, rests upon supports below it.

I am aware that drawers have been sustained by pins projecting from their sides entering slots in strips of metal and wood next such sides; therefore I do not broadly claim a drawer-support having extensible slides.

By grooving the slides for the reception of the bottom edges of the side pieces of the drawer, liability of the drawer falling downward between them is obviated.

I claim—

1. The slides and locking-levers connected therewith, in combination with the guides adapted to be engaged by the levers to lock the slides in their outward positions.

2. The drawer notched at its under side, and the slides and guides, combined with locking and drawer-engaging levers, adapted to be engaged with and freed from both the guides and the drawer, to operate substantially as described.

3. The combination, with the drawer, provided with side pieces extended below the bottom of the drawer to enter grooves in the slides, of slides guided by independent guides below the bottom of the drawer, the drawer in

its outward and inward movements being supported above the slides, substantially as described.

4. The hooked locking-lever *g*, provided with the projection 5 and heel 10, combined with and adapted to move with it, the drawer-engaging lever *n*, substantially as and for the purpose described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOSEPH WARREN DANE.

Witnesses:
G. W. GREGORY,
E. C. WHITNEY.