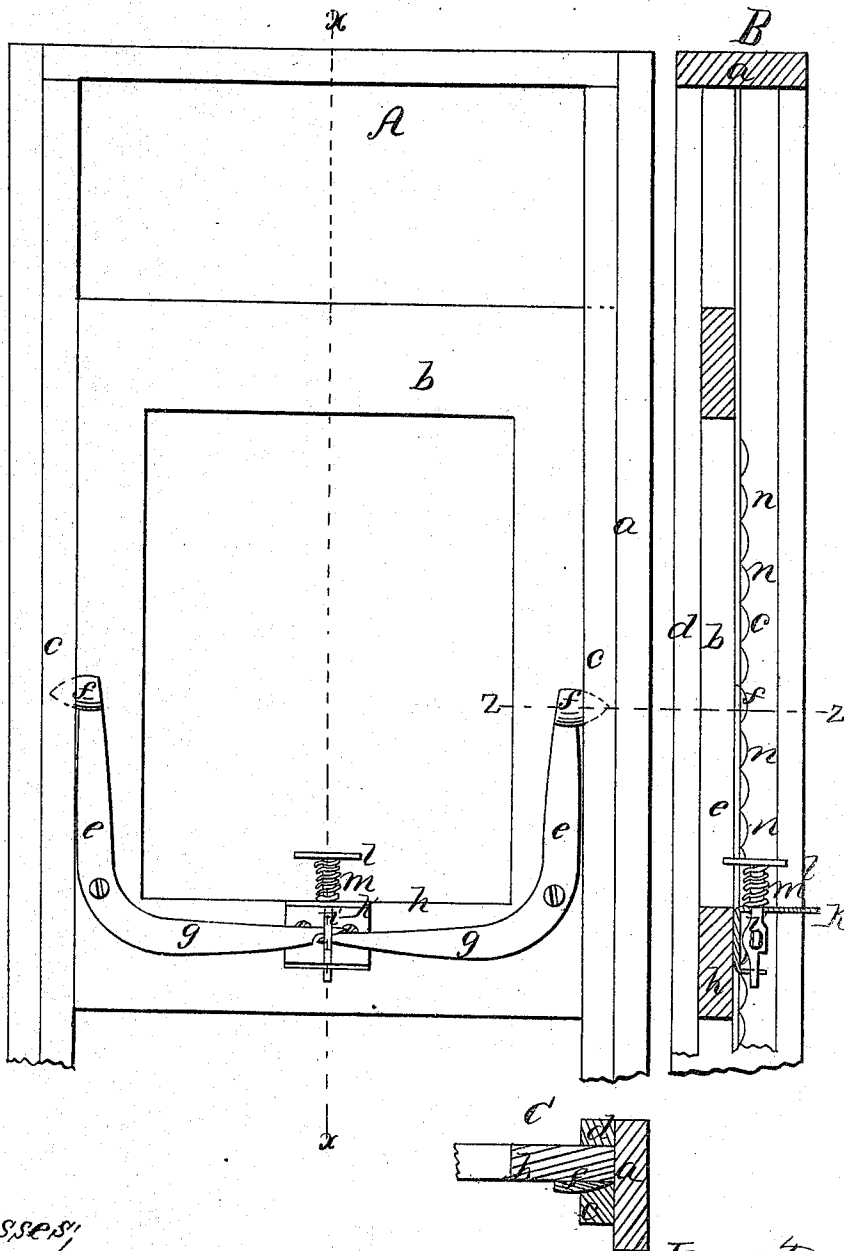


A. Davis,

Ship Fastener.

N^o 83,697.

Patented Nov. 3, 1868.



Witnesses;

S. J. Hadden

E. H. Brown

Inventor;

A. Davis,

by his Atty.

Chas. H. Hall & Gild



ADDISON DAVIS, OF BOSTON, MASSACHUSETTS.

Letters Patent No. 83,697, dated November 3, 1868.

IMPROVEMENT IN SASH-SUPPORTER

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, ADDISON DAVIS, of Boston, in the county of Suffolk, and State of Massachusetts, have invented an Improved Window-Sash Supporter; and I do hereby declare that the following, taken in connection with the drawings which accompany and form part of this specification, is a description of my invention, sufficient to enable those skilled in the art to practise it.

My invention relates to the construction of mechanism for sustaining window-sashes in open or closed position, being particularly intended for and applicable to car-windows.

The invention consists, primarily, in combining with the sash a bent lever, having a wedge-shaped bolt, which is pressed by a spring in between the sash and the stop-bead, in such manner as not only to lock the sash in any position to which it may be raised, but, at the same time, to press the sash tightly against the frame or outer bead, so as to prevent rattling of the window and the entrance of rain, dust, and wind.

The drawings represent a window-sash and frame embodying my improvement.

A shows a front view of the sash, and part of the frame.

B, a section on the line *x-x*.

C, a section on the line *z-z*.

a denotes the sash-frame.

b, the sash.

c, the stop-bead.

d, the outer or frame-bead.

The sash is made somewhat thinner than the running space between the beads *c d*, so that it may rise and fall very easily.

Upon one or each stile of the sash, a bent lever, *e*, is hung, as seen at A, the upper part of this lever carrying a wedge-shaped bolt, *f*, the wedge being so shaped that, when it is pressed in between the frame and the sash, it will force back the sash, and, at the same time, by taking firm hold of the sash, will lock it securely in the position to which it may have been raised.

The lower arm, *g*, of each lever, extends horizontally towards the centre of the sash-rail *h*, its end passing through a slot in a rod, *i*, this rod extending up through a rest-piece, *k*, and having at top a thumb-

plate, *l*, between which and the bar is a spring, *m*, action of which forces up the rod *i*, and elevates the lever-arms *g*, thereby pressing outwards the bolt or bolts *f*, which are there held normally in position to secure the sash at whatever height it may be.

To raise or lower the sash, the finger is placed under the piece *k*, and the thumb upon the plate *l*, when, by pressing the thumb-piece down, the bolts are retracted from between the sash and stop-beads, thereby freeing the sash, and allowing it to be easily raised or lowered.

A spring may be arranged to operate on the upper end of the lever, directly opposite the bolt; but I prefer the arrangement shown, as the location of the spring enables it to act upon two levers.

The bolt *f* is preferably made pointed or tapering in form, as shown at A, and is made wedge-shaped, as shown at C, so that, when pressed in between the sash and stop-bead, it shall press back the sash against the bead *d*, as seen at C.

I prefer, also, to make the inner face of each stop-bead *c*, or the face against which the bolt acts, notched or serrated, as seen at *n*, the bolt entering any one of these notches, and thereby more securely locking the sash in position.

It will be obvious that this sash-fastening and supporting-device may be made and applied at very slight cost, that it is admirably adapted, in construction, arrangement, and operation, for car-windows, and that it is an efficient instrumentality, both for fastening the sash in position, and for packing the sash, to exclude dust, and prevent jar or rattling of the window.

I claim the window-sash fastener, consisting of a spring-lever, *e*, having at its top a wedge-shaped bolt, formed and applied as shown, so as to perform the double function of locking the sash securely in position, and also of wedging or pressing back the sash against the bead *d*, the lever having a slide-rod or other provision for releasing the bolt, substantially as set forth.

ADDISON DAVIS.

Witnesses:

FRANCIS GOULD,
L. H. LATIMER.