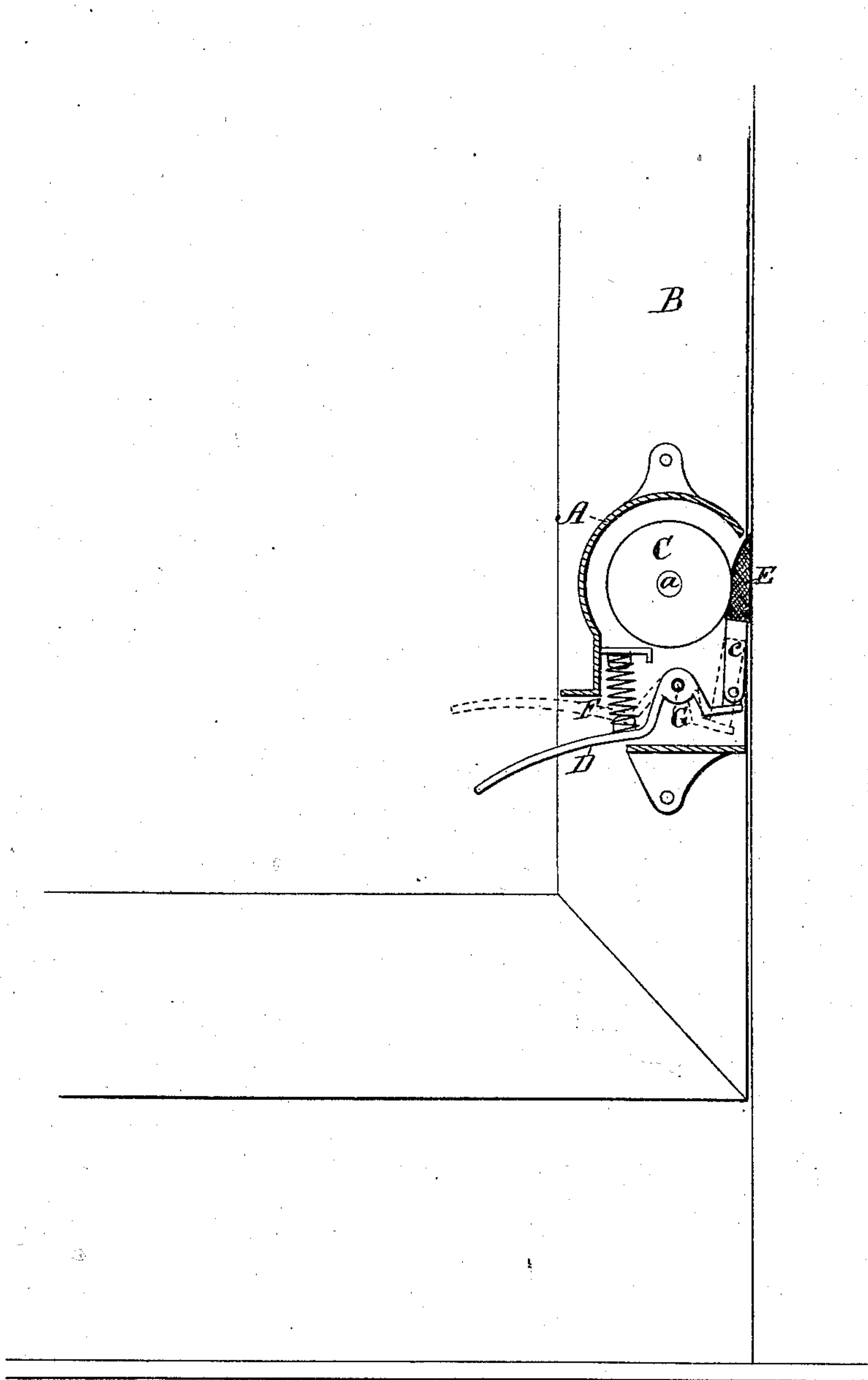


H. TORREY & D. LYMAN.

SASH-HOLDER.

No. 170,131.

Patented Nov. 16, 1875.



WITNESSES:

A. H. Hark
W. W. Hollingsworth

INVENTOR:

Hiram Torrey
Darius Lyman
BY *Mumtaz*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

HIRAM TORREY, OF PHILADELPHIA, PENNSYLVANIA, AND DARIUS LYMAN,
OF WASHINGTON, DISTRICT OF COLUMBIA.

IMPROVEMENT IN SASH-HOLDERS.

Specification forming part of Letters Patent No. 170,131, dated November 16, 1875; application filed
October 30, 1875.

To all whom it may concern:

Be it known that we, HIRAM TORREY, of the city and county of Philadelphia and State of Pennsylvania, and DARIUS LYMAN, of Washington city, District of Columbia, have invented a new and Improved Sash-Holder; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming a part of this specification, in which the figure is represented in elevation of our invention, the side of the case being removed.

The invention relates to a device designed for application to a window-sash, for the purpose of arresting and supporting the same by frictional contact with the jamb.

The chief elements of the device are a movable or adjustable rubber wedge and an elastic roll mounted on a fixed pivot, the former being connected with a pivoted spring-lever, and so arranged as to adapt it for insertion between the roll and jamb, to lock the sash, as hereinafter fully set forth.

Referring to the drawing, A denotes a metal case, which is secured to the stile B, and incloses the working parts. The elastic roll C, mounted on the fixed pivot *a*, is composed of caoutchouc, or other elastic substance. A bent lever, D, is pivoted at *b* beneath the roll C, and projects through the side of the case A, as shown. The elastic wedge E is composed of the same material as the roll, and suitably attached to a metal bar, *c*, which is pivoted to the inner end of the lever D. A spiral or other form of spring, F, is arranged on the other side of the fulcrum *b*, to act on the lever, and thus cause the wedge to tend to thrust itself into the narrow space between the roll and jamb or window-frame.

Since the roll turns freely on pivot *a* with each movement of the wedge, and the latter slides in contact with the jamb, there is slight friction on one side of the wedge, but excessive friction on the other. The effect is to cause the wedge to insert itself firmly between the roll and jamb whenever the sash moves, or tends to move, downward, thus arresting and holding the sash by its binding action.

It is further apparent that in proportion to the weight, and consequent downward pressure, of the sash, the farther will the wedge thrust itself upward, by reason of the increased friction between it and jamb. Hence, the device will be equally available and efficient on large or small sash.

The combined function of the spring and lever is to sustain the wedge in sufficiently close contact with the jamb to enable it to act—*i. e.*, move upward—promptly whenever the sash begins to descend.

The end of the lever, which projects from the case A, constitutes a thumb-piece, by which the wedge may be drawn downward, and held out of close contact with the jamb, when it is desired to lower the sash.

It is unnecessary to operate the lever when the sash is to be raised, since the wedge is then depressed by friction with the jamb.

As shown in the drawing, the wedge is inserted firmly between the roll and jamb, and the sash is, consequently, locked in an elevated position.

The dotted lines represent the position of wedge and lever when the lock is broken, and the sash left free to be lowered.

In some cases we propose to place the lever and wedge above the roll, so that the latter may operate to prevent the sash being raised.

What we claim is—

1. The combination, within a suitable shell or case, A, of a pivoted elastic roll, C, and movable or adjustable rubber wedge, E, for working in contact with, and between, the jamb or window-frame and roll, substantially as set forth.

2. The pivoted lever D, the spring F, the pivoted bar *c*, and elastic wedge E, in combination with a rubber or other elastic roll, C, as shown and described, to operate as specified.

HIRAM TORREY.
DARIUS LYMAN.

Witnesses to TORREY's signature:

J. G. HAMMER,
T. ESMONDE HARPER.

Witnesses to LYMAN's signature:

CHAS. A. PETTIT,
AMOS W. HART.