Beals & Grilley,

Sash Fastener.

No. 45,016. Patented Nov. 15, 1864

Fig. 3.

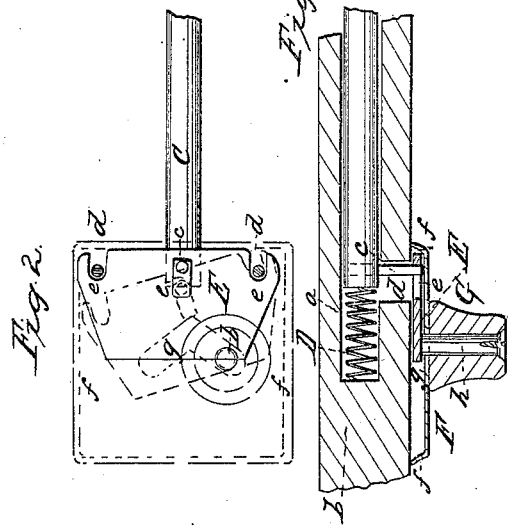
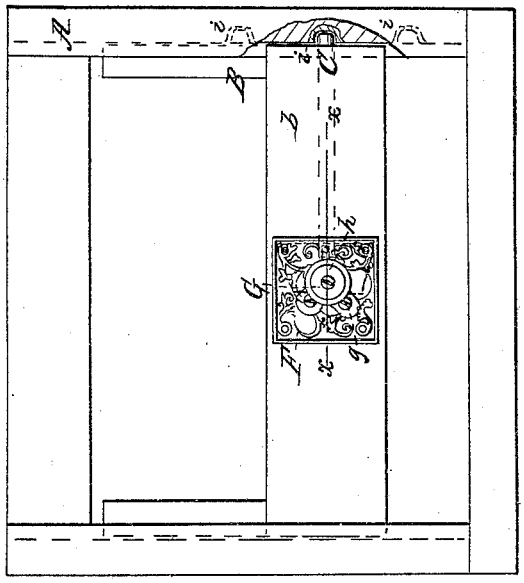


Fig. 2.

Fig. 1.



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UNITED STATES PATENT OFFICE.

FORDYCE BEALS AND C. T. GRILLEY, OF NEW HAVEN, CONNECTICUT.

IMPROVED SASH-FASTENING.

Specification forming part of Letters Patent No. **45,016**, dated November 15, 1864.

To all whom it may concern:

Be it known that we, FORDYCE BEALS and C. T. GRILLEY, of New Haven, in the county of New Haven and State of Connecticut, have invented a new and Improved Sash-Fastening; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a front or face view of a sash with our improvement applied to it; Fig. 2, a side view of the parts composing the same detached from the sash; Fig. 3, a horizontal section of the sash, taken in the line *x x*, Fig. 1.

Similar letters of reference indicate like parts.

This invention relates to a new and improved fastening for window-sashes, designed more especially for car-sashes, in order to retain or hold them at different heights.

The object of the invention is to obtain a sash-fastening which will be simple in construction, not liable to get out of repair, and be capable of being operated without any special manipulation apart from the simple raising of the sash.

A represents the frame, and B the sash, of an ordinary car-window. These parts, being of usual construction, do not require a special description.

C is a bolt, which is inserted in a horizontal hole, *a*, made in the lower rail, *b*, of the sash, and is allowed to work freely therein, a spiral spring, D, being fitted in the hole *a* to bear against the inner end of the bolt and keep the same thrust out the entire length it is designed to project beyond the side of the sash. (See Fig. 3.) The length of the sliding movement of the bolt C is determined by a pin, *c*, which projects from it at right angles, and extends through a slot, *d*, in the rail *a*, as shown clearly in Fig. 3.

E represents a plate, which has an oblong slot, *e*, in it, through which the pin *c* passes. This plate has upright parallel sides, but its upper and lower ends are beveled or inclined, so as to have reverse positions, as shown clearly in Fig. 2. The right-hand edge of the plate E has two notches, *d d*, made in it, to receive pins *e e* in the rail *b* of the sash. The plate E is covered by a plate, F, having a flange, *f*, all around its inner edge, said flange bearing against the rail *b*, and forming a space for the plate E to work in. The plate E has a V-shaped slot, *g*, made in it, (shown clearly in Figs. 1 and 2,) and through this slot a pin, *h*, attached to the plate E, passes said pin *h*, having a knob, G, upon it.

From the above description it will be seen that the bolt C may be drawn back by simply operating the knob G—that is to say, by pulling it upward or downward—the slot *g* actuating the plate E, as the knob is pulled, and said plate operating upon the bolt, drawing it back; hence in raising or lowering the sash the pull upon the knob in an upward or downward direction operates upon the bolt to free it from holes *i* in the frame of the window, into which the spring D forces it when the knob G is free. The pins *e* serve as bearings for the plate E while being actuated under the pull upon the knob G, and the beveled ends of plate F bear against the flange *f* at the upper and lower ends of plate F, as the knob G is pulled up or down, in order to prevent any of the parts being subjected to an undue strain in raising or lowering the sash.

The device is extremely simple and efficient, and there are no parts liable to become deranged by use or to get out of repair.

We claim as new and desire to secure by Letters Patent—

The bolt C and spring D, in combination with the plates E F, the latter being provided with the V-shaped slot *g*, and the former provided with the pin *h*, passing through said slot *g*, all arranged substantially as and for the purpose herein set forth.

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