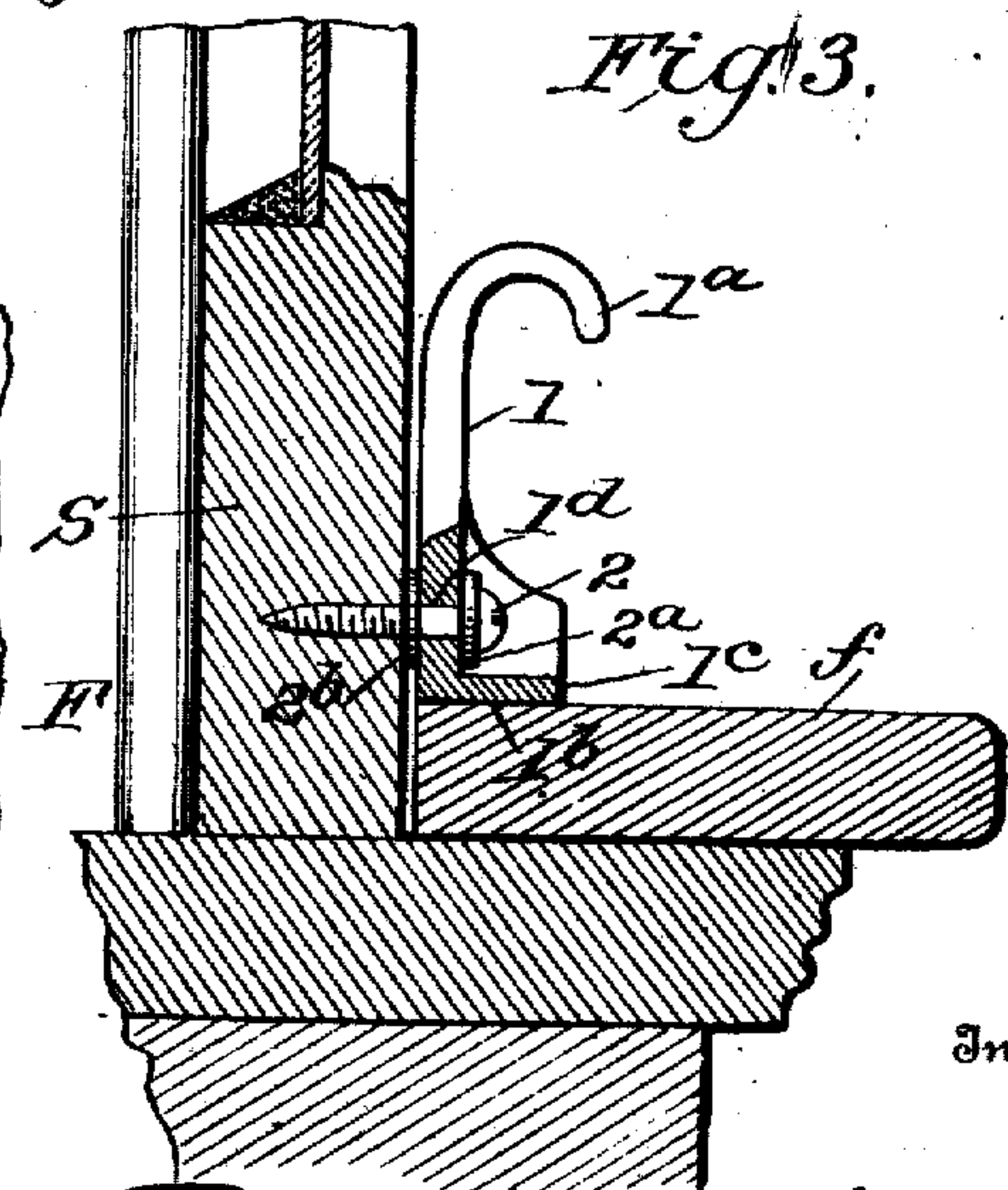
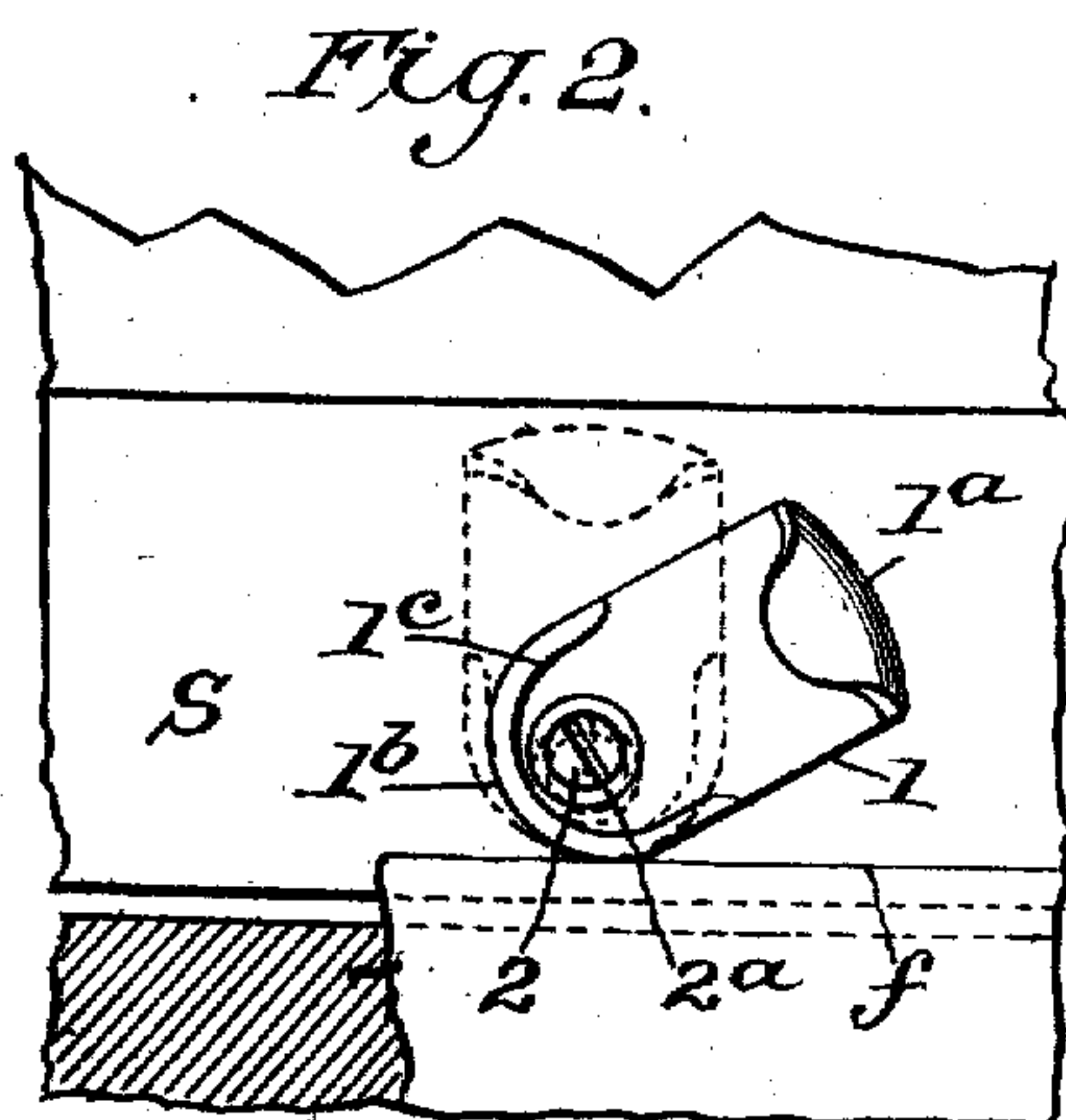
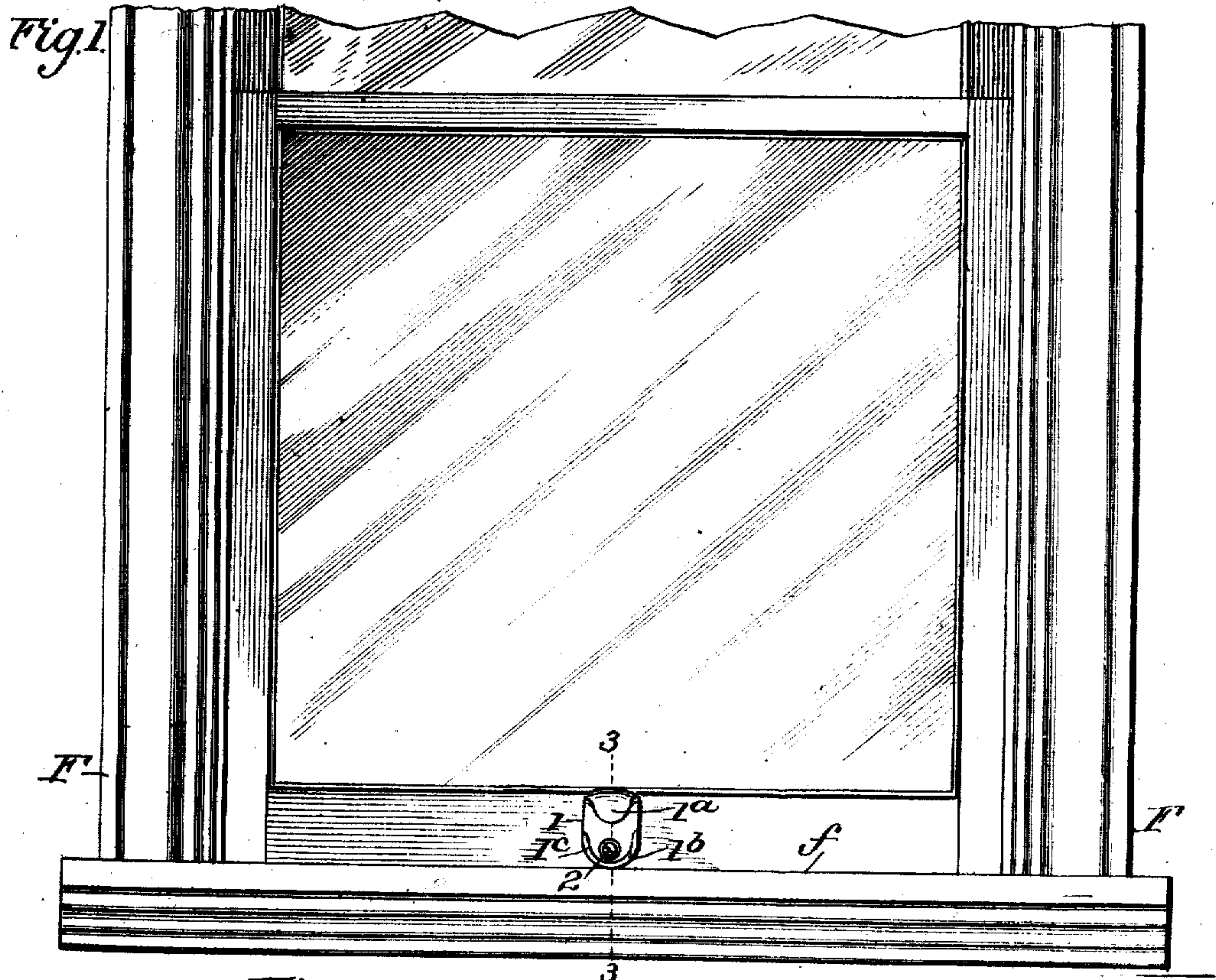


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SASH LIFTER.

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931,388.

Patented Aug. 17, 1909.



Witnesses
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UNITED STATES PATENT OFFICE.

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SASH-LIFTER.

No. 931,388.

Specification of Letters Patent.

Patented Aug. 17, 1909.

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To all whom it may concern:

Be it known that I, ROYAL CORBIN, of Champlain, in the county of Clinton and State of New York, have invented certain new and useful Improvements in Sash-Lifters; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form part of this specification.

This invention is a novel means for starting and lifting window sash; and the object of the invention is to provide a simple device which can be readily attached to the lower rail of a window sash and used to lift the sash, and is so formed that it can also be used to forcibly start the sash in case the latter is jammed.

The device comprises a combined pull or finger hold and an eccentric piece pivoted upon a single screw or pin by which it is fastened to the lower rail sash.

It is well known that when a window sash is lowered and remains undisturbed for a time, or if it fits very closely, it is difficult to raise it; but if my device is attached to such sash, anyone by simply turning the device to one side can easily start the sash, thus overcoming the binding, and then can readily lift the sash in the ordinary manner.

The invention provides a sash starter and pull of the simplest and cheapest construction, and which can be readily applied to a sash by anyone, and will practically cost no more than the ordinary sash finger-holds or pulls.

The invention will be readily understood from the accompanying drawings and following description thereof.

In said drawings—Figure 1 is a front view of the device as applied to a window sash. Fig. 2 is an enlarged front view of the device showing it in sash starting position in full lines, and in normal lifting position in dotted lines. Fig. 3 is an enlarged vertical section on line 3—3, Fig. 1.

As shown in the drawings, the device comprises a combined finger-hold and cam lever, which may be cast or forged; being preferably cast. It consists of a body portion 1 having a finger-hold 1^a at its upper end and a rounded cam or eccentric portion 1^b at its lower end which (as indicated in the drawings) should be of sufficient weight to keep the device normally in a vertical position; said cam portion may be provided with an

outwardly projecting flange 1^c to give it more bearing surface on the window sill. Above the flange 1^c and eccentric to the cam portion 1^b is a perforation 1^a for the passage of a fastening screw 2, by which the device is attached to the lower rail S of a window sash. A washer 2^a may be interposed between the head of the screw and the device 1, and a washer 2^b may, if desired, be placed on the screw between the device and the sash; but these washers are not essential.

The device is secured to the sash S in such position that when the sash is fully lowered and the device is upright as indicated in Fig. 1, the central or lowest part of the cam 1^b will lightly rest upon the upper top of the sill f of the window frame F as shown in Fig. 1; and the device is used to lift the sash just like an ordinary window-pull, by inserting the forefinger under the finger-hold 1^a. If the sash should stick however, the device is turned to one side, either left, or right, as indicated in Fig. 2, whereupon the cam 1^b engages the upper surface of the sill f and forces the sash upwardly, thus starting it, and enabling the operator by pulling upwardly on the device to raise the sash in the ordinary manner.

As the device is attached to the sash rail by one screw or pivot it is capable of being swung to right or left to start the sash. By making the lower part of the device circular or cam shaped and pivoting it eccentrically on the single screw or pivot as described the lower end becomes a cam and the device is rendered capable of two functions, to wit—that of forcibly starting the sash by simply turning the device, and that of raising the sash by an upward pull. The device while simple is capable of forcibly starting the sash by slightly turning the device and of lifting the sash after it is started. The finger-hold not only facilitates the lifting of the sash, but enables anyone to readily forcibly start the sash; the operator by practically one movement first starting the sash and then without changing his hold on the device lifting the sash; the finger-hold in one sense acts as a lever in starting the sash, and then as a lifter in raising the sash.

Having described my invention what I claim as new and desire to secure by Letters Patent thereon is:

1. As a new article of manufacture the herein described sash lifter and starter consisting of a single piece of metal formed at

its upper end with a finger-hold and at its lower end with a cam the device being loosely pivoted to the sash and adapted to rest normally in an upright position to engage the window sill and start the sash when the finger hold is turned to the right or left, substantially as described.

2. The combination with a window sash and sill of a combined lifter and starter consisting of a single piece of metal having a finger hold at its upper end and a weighted cam at its lower end, said device being

loosely pivoted to the sash and adapted to rest normally in an upright position and to start the sash when the finger hold is moved in either direction, substantially as described. 15

In testimony that I claim the foregoing as my own, I affix my signature in presence of two witnesses.

ROYAL CORBIN.

Witnesses:

JOHN W. CLARK,

JAMES B. STEARNS.