

W. W. SWEETLAND.
SASH SUPPORTER AND LOCK.
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924,853.

Patented June 15, 1909.

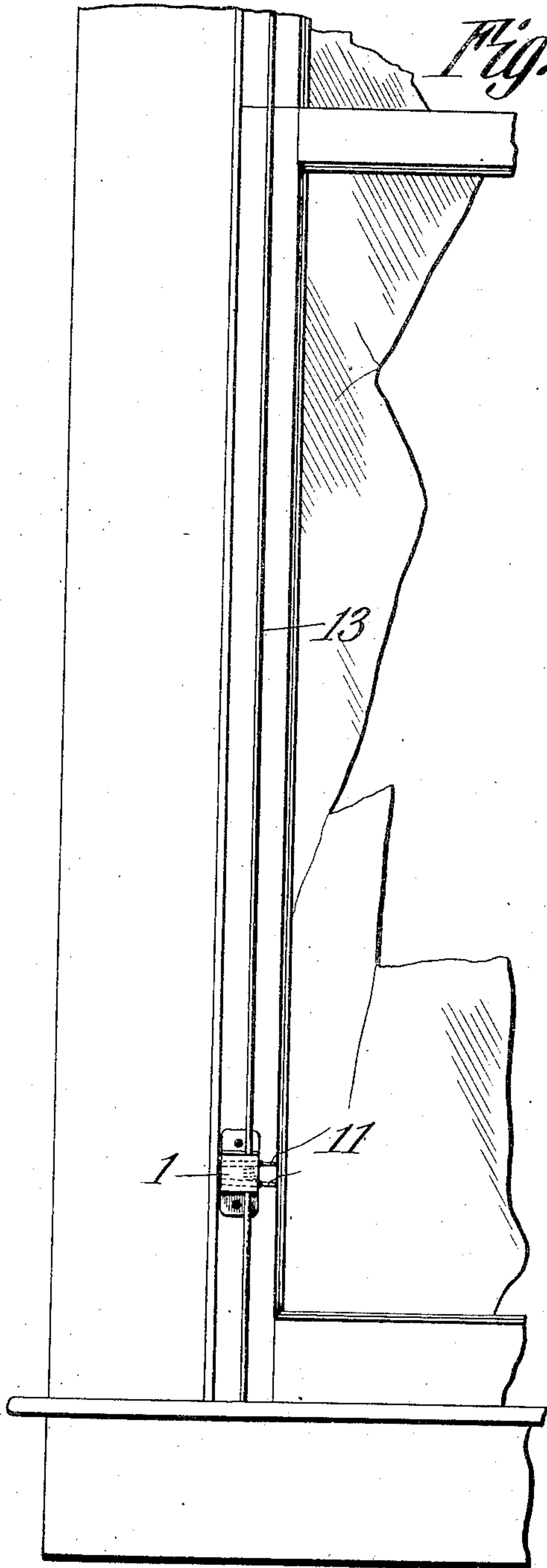


Fig. 1.

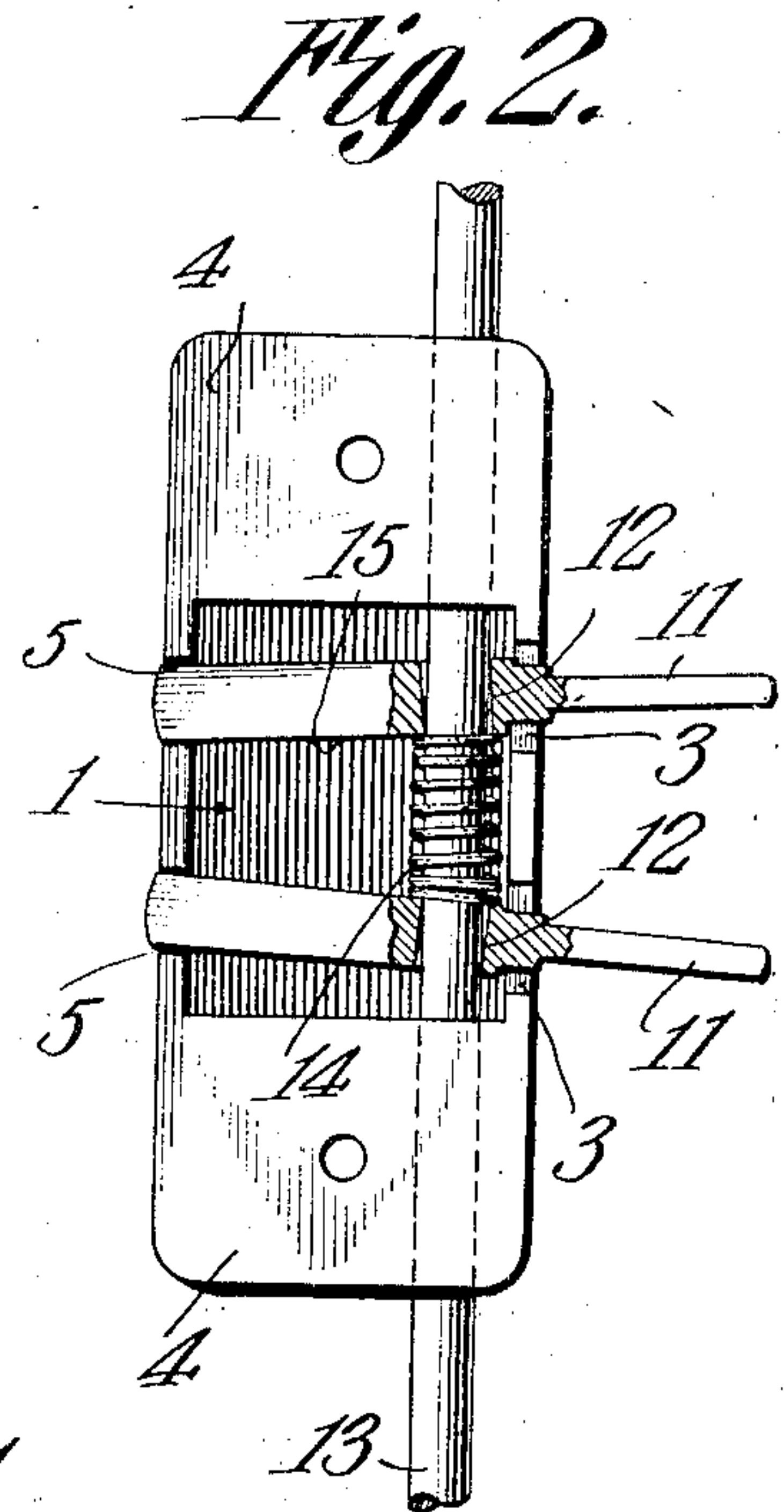


Fig. 2.

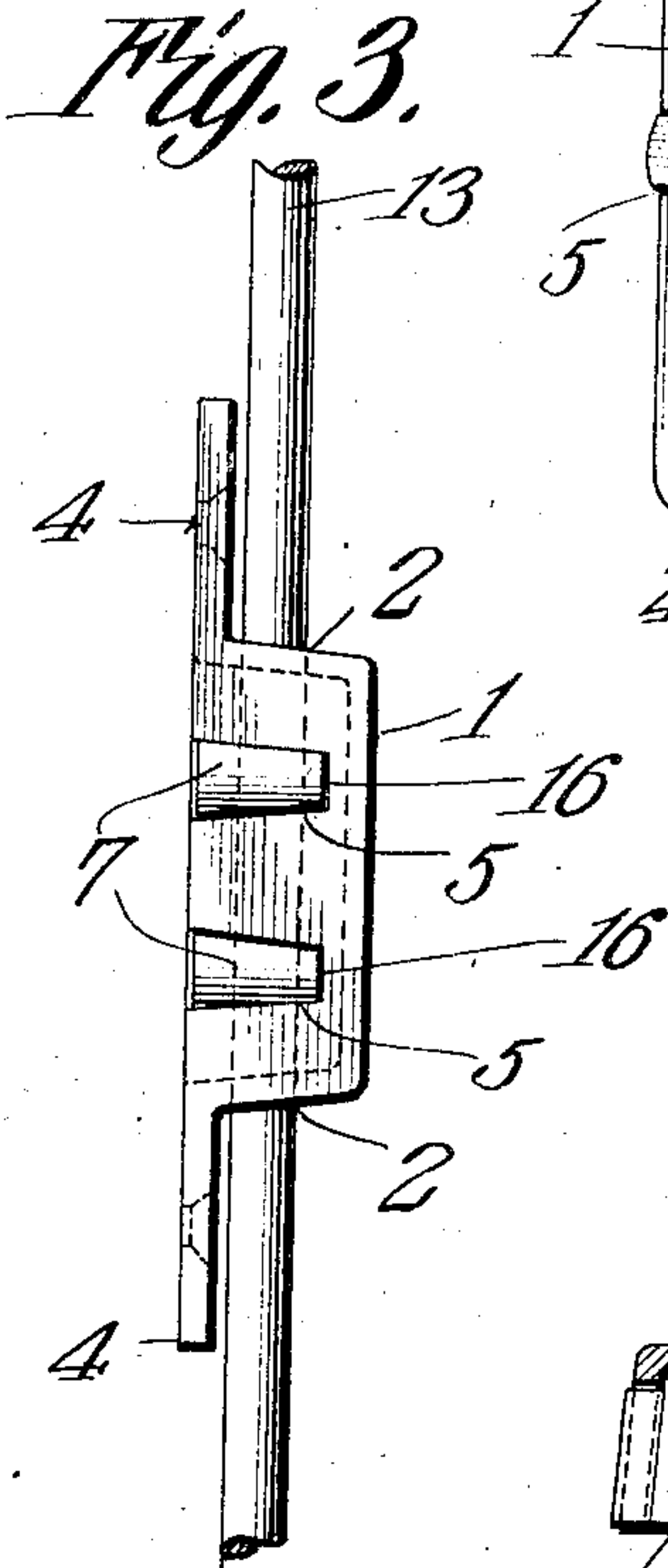


Fig. 3.

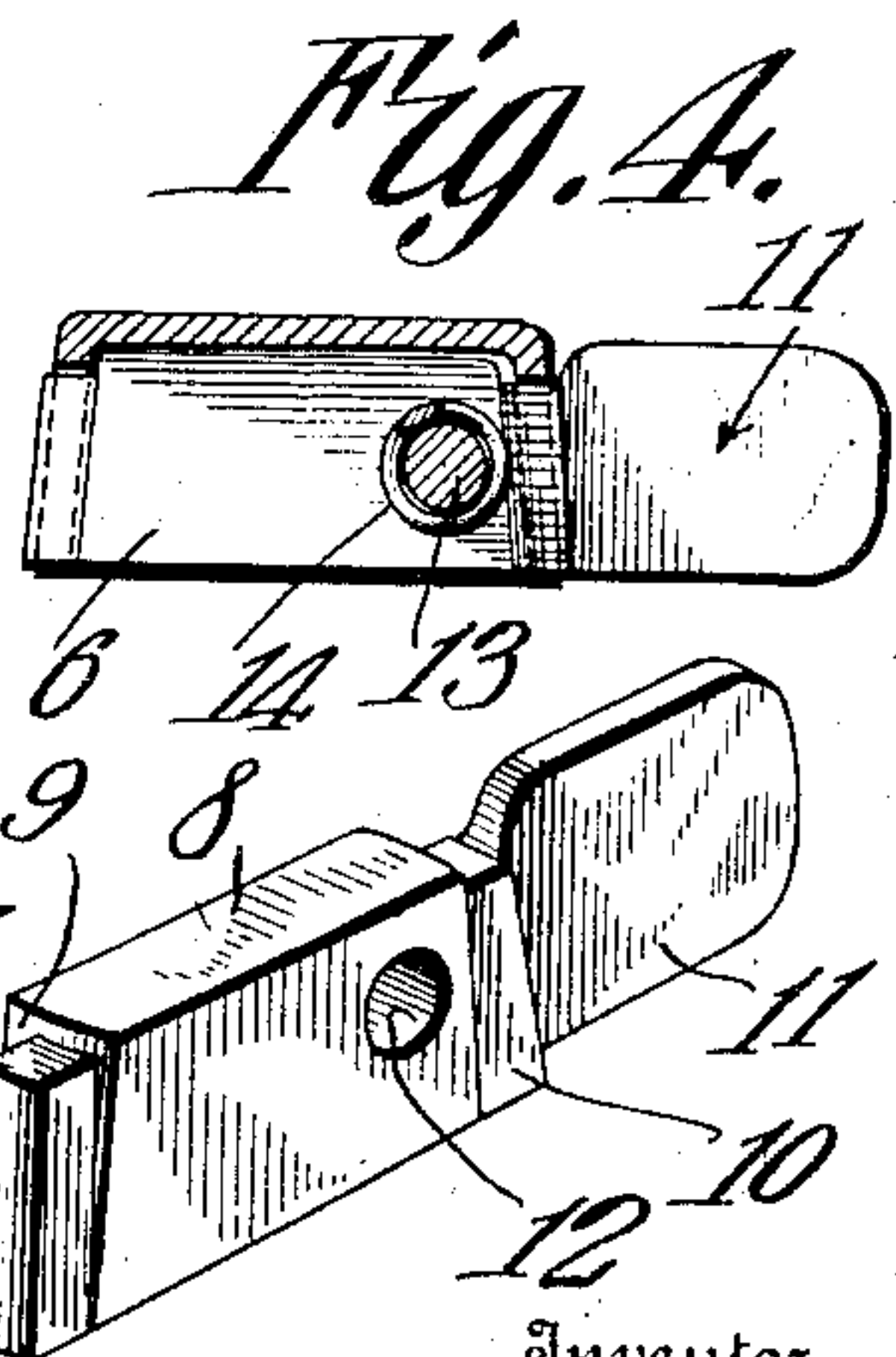


Fig. 4.

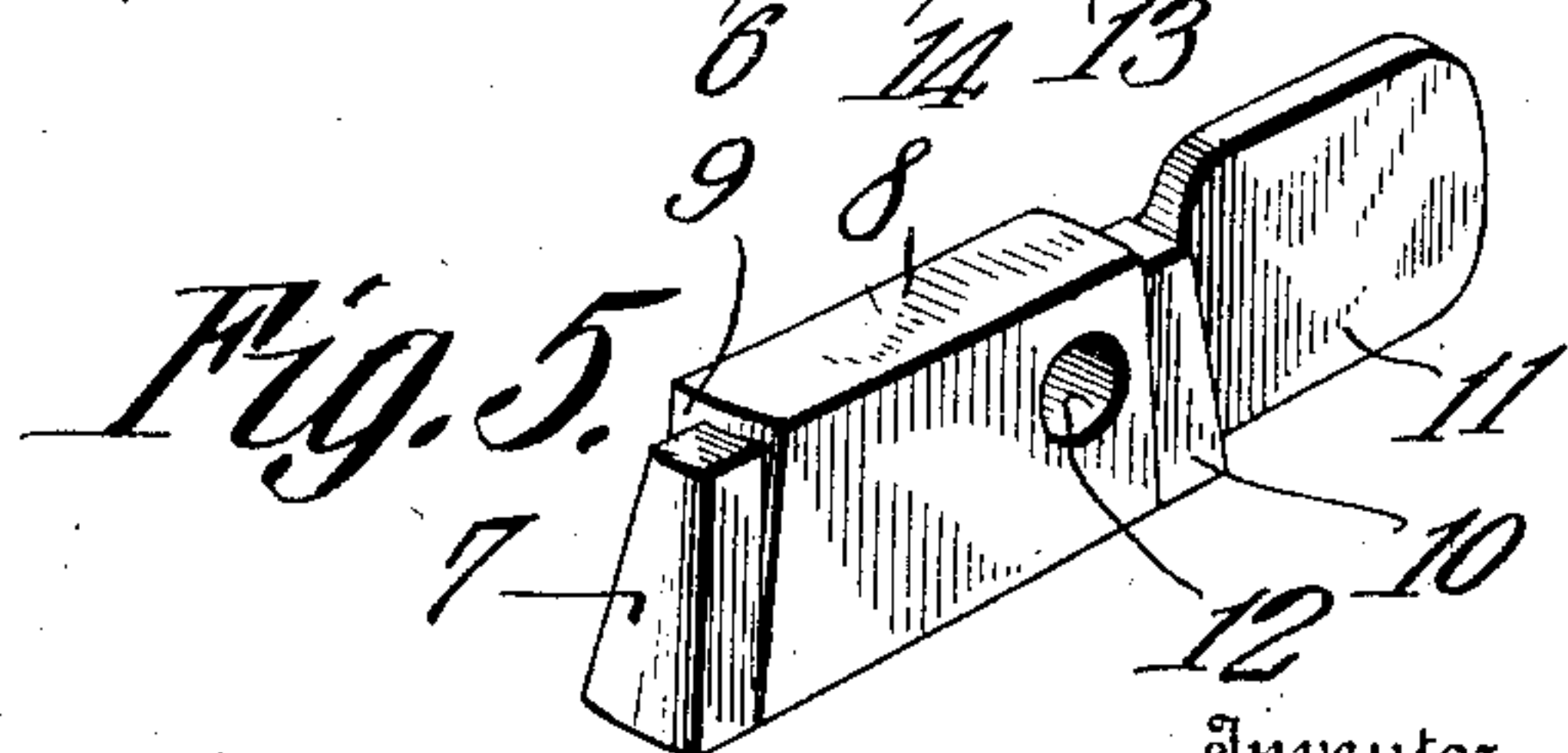


Fig. 5.

Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM W. SWEETLAND, OF EDWARDSBURG, MICHIGAN.

SASH SUPPORTER AND LOCK.

No. 924,853.

Specification of Letters Patent.

Patented June 15, 1909.

Application filed September 30, 1908. Serial No. 455,437.

To all whom it may concern:

Be it known that I, WILLIAM W. SWEETLAND, a citizen of the United States, residing at Edwardsburg, in the county of Cass and State of Michigan, have invented a new and useful Sash Supporter and Lock, of which the following is a specification.

The objects of the invention are, the provision, in a novel and improved form, of a sash supporter and lock, which shall be inexpensive to manufacture, facile in operation, and devoid of complicated parts, other objects and novel features of construction being disclosed as the description of the invention progresses.

The invention consists in the novel construction and arrangement of parts, hereinafter described, delineated in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that divers changes in the form, proportions, size and minor details of the structure may be made without departing from the spirit or sacrificing any of the advantages of the invention.

Similar numerals of reference are employed to indicate corresponding parts throughout the several figures of the drawings.

In the accompanying drawings:—Figure 1 is a front elevation of a window sash of conventional construction, with the sash lock and supporter of my invention attached thereto; Fig. 2 is a rear elevation of the invention, a portion of the levers 6 being broken away better to illustrate the structure; Fig. 3 is a side elevation; Fig. 4 is a top plan, the housing 1 being broken away, more clearly to reveal the internal structure of the device; Fig. 5 is a detail perspective of one of the levers 6.

To enable others skilled in the art to which the invention appertains, to make and use the same, I will now describe its construction and indicate the manner in which the same is carried out.

The invention comprises a housing 1 which may be of any form; as shown, it is box-like in structure, open at the back, and provided with straight rear faces 4, extending outward beyond the top and bottom of the housing 1. The housing 1 is provided with alined openings 2 in the top and bottom. Other openings 3 are provided in the side of the housing 1, and upon the opposite side are located the

openings 5, which are wedge-shaped in their preferred form, as shown in Fig. 3.

Referring to Fig. 5, it will be seen that the levers 6 comprise a wedge-shaped end 7 adapted to register with the openings 5 in the housing 1. The body 8 of the levers 6, is in the form of a parallelogram, and by this construction, a shoulder 9 is provided, outstanding beyond the wedge-shaped end 7 and arranged to contact with the interior of the housing 1. The end 10 of the levers 6 which is arranged to move in the openings 3 of the housing 1, is similar in shape to the end 7, and from this end 10 projects outward through the openings 3, the thumb pieces 11, whereby the said levers 6 may be operated. The levers 6 bear openings 12, alined with each other, and with the openings 2 in the housing 1. A rod 13 is slidably mounted in the openings 12 and 2, and a compression spring 14 encircles the rod 13, the said spring having its ends in contact with the adjacent faces 15 of the levers 6.

The shape of the body portion 8 of the levers 6 prevents the spring 14 from being moved laterally into contact with the rod 13 when the levers 6 are operated, increasing the force necessary to operate the device, a contingency which would occur if the wedge-shaped construction of the ends 7 were carried through the entire length of the lever. The shoulders 9 serve to hold the levers in proper position and prevent them from moving into frictional contact with the rod 13 when the thumb-pieces 11 are pinched toward each other.

The operation of the device is obvious; however, it may be noted that, while parallel faces 15 are provided upon the levers 6, against which the ends of the spring 14 may bear when the levers 6 are brought together, the ends 7 are wedge-shaped. By this construction, when the levers 6 are allowed to separate under the action of the spring 14, the said levers 6 will have their faces 16 tilted slightly toward each other increasing the grip of the lever 6 upon the rod 13.

In practical operation, the levers 6 may be pinched together and the sash supporter and lock slid up or down the rod 13 with the sash, in the ordinary manner. However, by the peculiar construction of the levers 6 hereinbefore described, I am able to provide a device which, while affording a secure lock, is delicate and sensitive in its operation.

the finger be pressed upon the upper lever 6 the window sash will slide slowly down under the friction of the lower lever, and if the finger be placed beneath the lower lever 6, the window may be raised against the friction of the upper lever 6.

Having thus described my invention, what I claim as new and desire to protect by Letters-Patent, is;

1. In a device of the class described, a housing having wedge-shaped slots in one of its sides; levers mounted in the housing, the said levers comprising a wedge-shaped terminal arranged to register with one of the wedge-shaped slots in the housing and being provided with a shoulder outstanding beyond the wedge-shaped terminal and arranged to contact with the interior of the housing.

2. In a device of the class described a housing having in one of its sides, wedge-shaped slots, and in its top and bottom, alined openings; levers mounted in the housing, the said levers being provided with

wedge-shaped terminals arranged to register with the wedge-shaped slots in the housing, and having openings alined with each other and with the openings in the top and bottom of the housing; a rod slidably mounted in the alined openings in the lever and in the housing; and resilient means for separating the levers.

3. In a device of the class described, levers comprising a rectangular body portion and a wedge-shaped terminal integral with the body portion; a housing having wedge-shaped slots arranged to receive the terminals of the levers; and resilient means for separating the levers.

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

WILLIAM W. SWEETLAND

Witnesses:

HENRY ANDRUS,
W. R. ANDRUS.