

B. F. THOMPSON.
SASH HOLDER.
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929,729.

Patented Aug. 3, 1909.

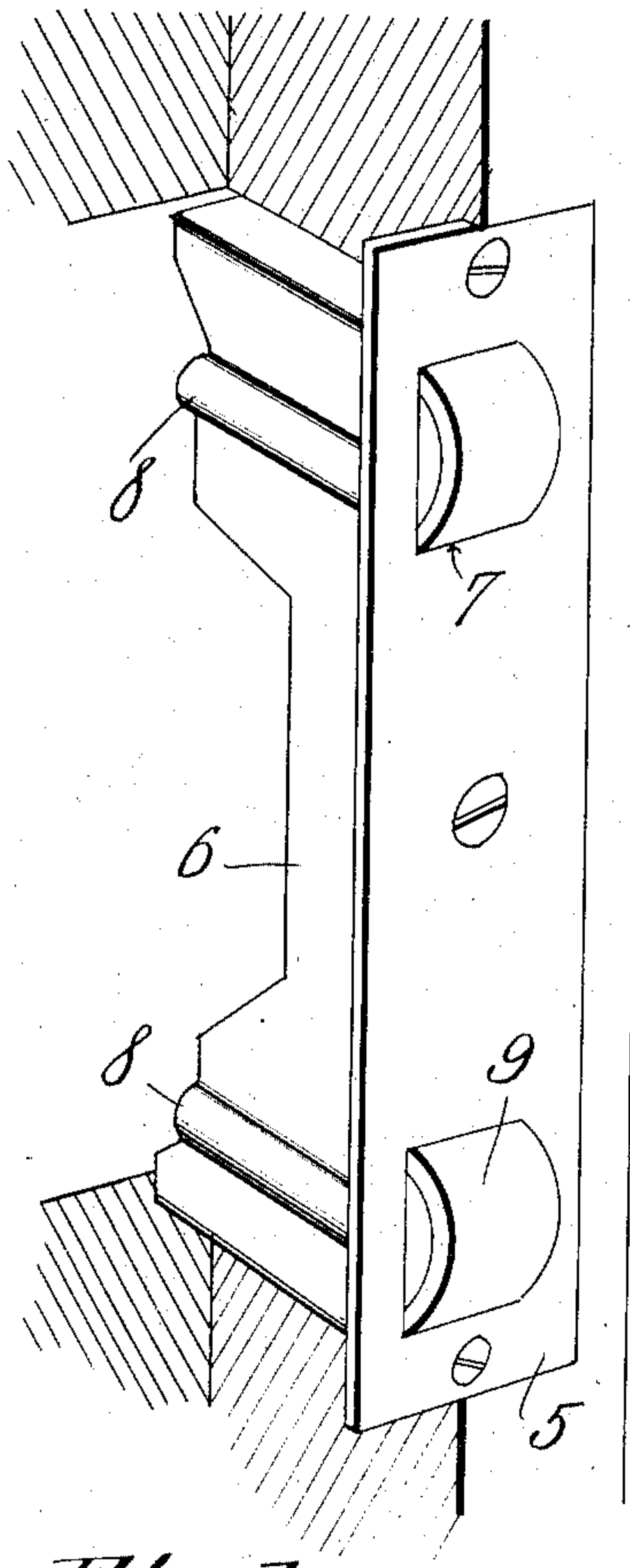


Fig. 1.

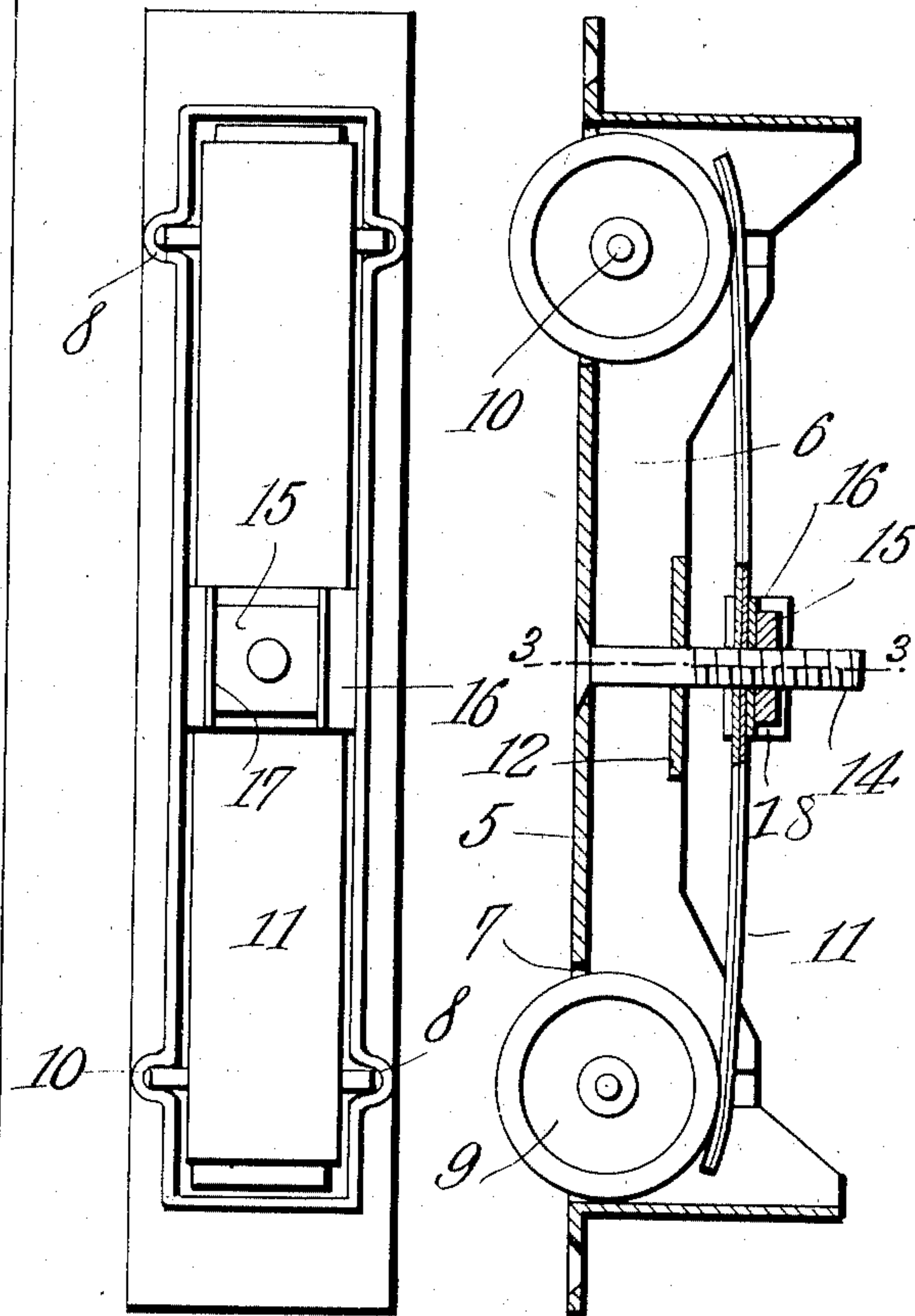


Fig. 4.

Fig. 2.

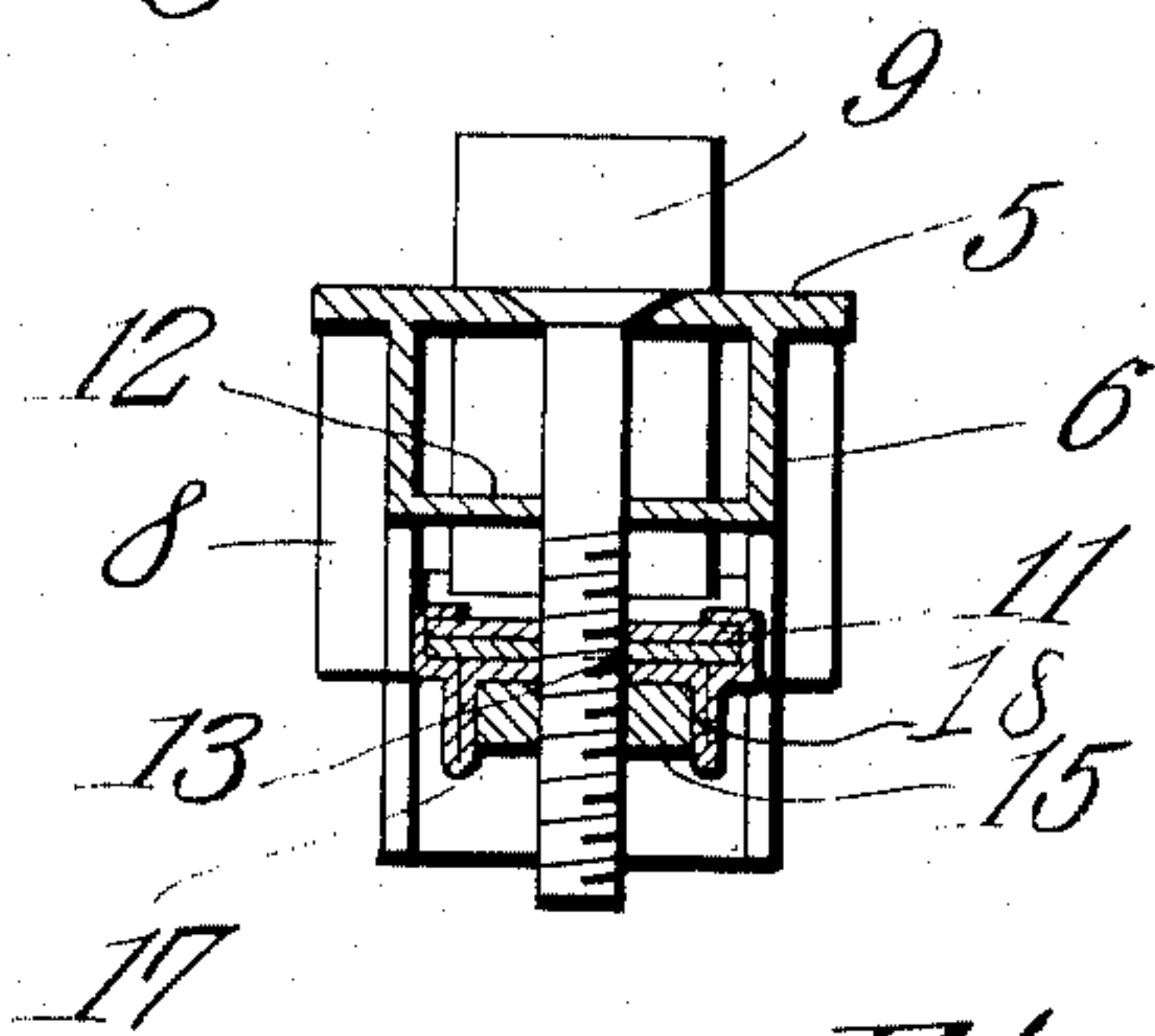


Fig. 3.

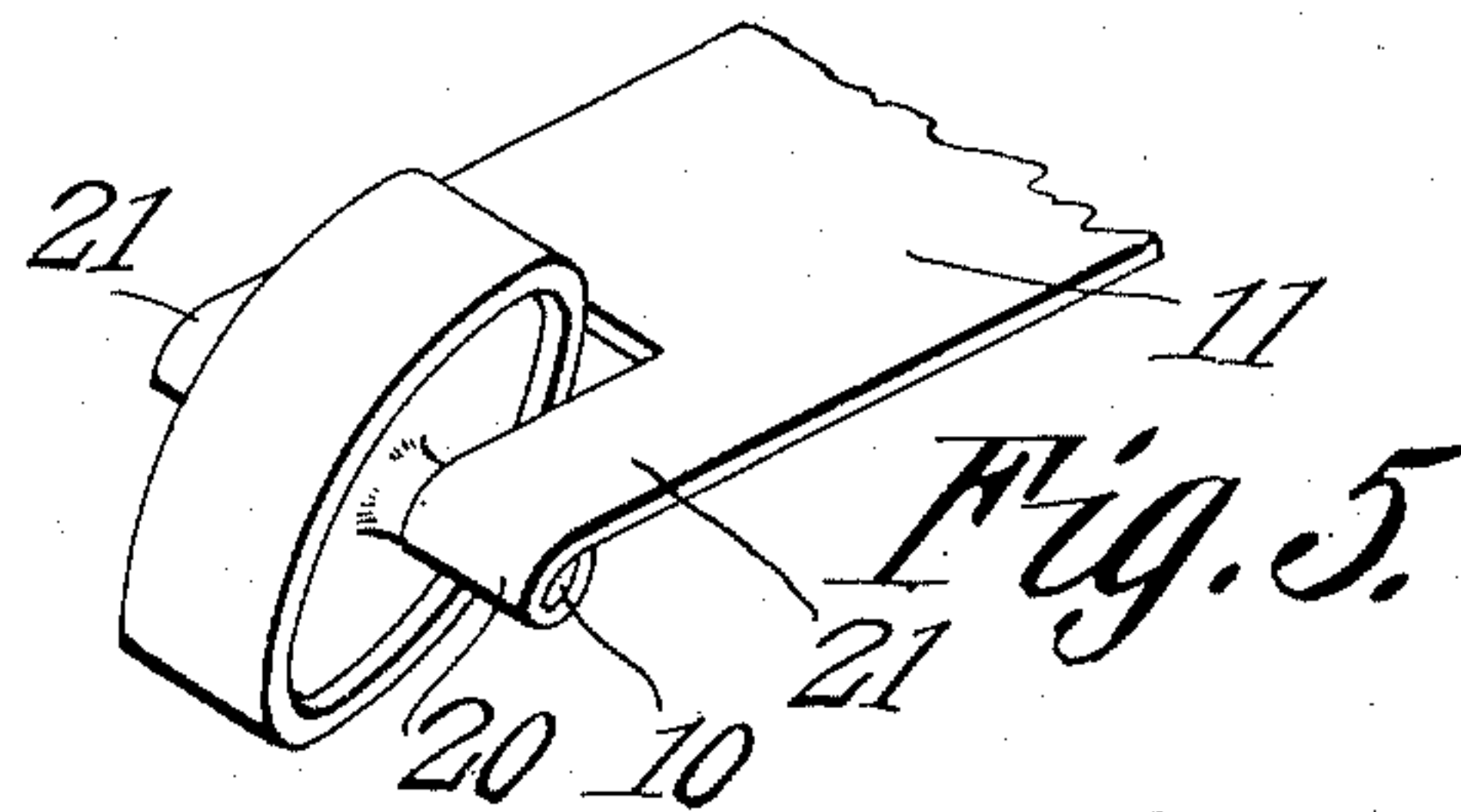


Fig. 5.

Witnesses

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UNITED STATES PATENT OFFICE.

BENJAMIN F. THOMPSON, OF MALONE, NEW YORK.

SASH-HOLDER.

No. 929,729.

Specification of Letters Patent.

Patented Aug. 3, 1909.

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To all whom it may concern:

Be it known that I, BENJAMIN F. THOMPSON, a citizen of the United States, residing at Malone, in the county of Franklin and State of New York, have invented a new and useful Sash-Holder, of which the following is a specification.

It is the primary object of the present invention to provide a sash holder of that type embodying friction rollers, which may be applied and adjusted without the necessity of removing the sash from its frame.

The novelty in the device resides chiefly in the feature of providing, in a device of this class including friction rollers and a spring for normally controlling the rollers, means accessible from the outer side or face of the device for adjusting the said spring.

In the accompanying drawings:—Figure 1 is a perspective view showing the device applied to a window frame stile, a portion of the stile being shown in section. Fig. 2 is a vertical sectional view through the device taken in a plane at right angles to the plane in which the axes of the rollers of the device are located. Fig. 3 is a horizontal sectional view on the line 3—3 of Fig. 2; and Fig. 4 is a rear elevation of the device. Fig. 5 is a detail perspective view of a slight modification.

As shown in the drawings, the device embodying the invention is comprised, in part, of an attaching plate 5 having integral with one face thereof a housing, the side walls of which are indicated by the numeral 6. The attaching plate is formed with openings 7, one located adjacent each end of the said plate and the housing is formed, in its side walls 6 and in a horizontal plane midway of the upper and lower edges of each of the openings 7, with guide channels 8.

As heretofore stated, the device includes friction rollers and these rollers, which are indicated by the numeral 9, are provided with spindles 10 which project at their ends into the said guide channels 8, the rollers being in this manner mounted to rotate and to project partly through the respective openings 7.

In applying the device to a window, one or both stiles of the window frames are recessed to receive the housing of the device with the outer face of the attaching plate 5 thereof flush with the inner face of the said stile of the window frame. It will be readily understood that the friction rollers 9 are to

bear frictionally against the stile or stiles of the window sash, and in this manner hold the sash at various vertical adjustments, and in order that this result may be obtained, I provide a leaf-spring 11 which, as clearly illustrated in Fig. 2 of the drawings, bears at its ends frictionally against the rollers 9. Intermediate of its ends, the housing of the device is formed with a web 12 which extends from edge to edge of its side walls and inserted through the plate 5 and through an opening formed in the said web 12 and an opening 13 in the spring midway of its ends, is an adjusting bolt 14 upon which is threaded a nut 15, the head of the bolt being counter-sunk in the outer face of the attaching plate 5, as clearly shown in Fig. 1 of the drawings, and being provided with the usual groove or notch for the reception of the end of a screw-driver. In order to hold the nut against turning so that the bolt may be rotated to adjust the tension of the spring, a plate 16 has its end portions bent upon itself, as at 17, to engage with the longitudinal edges of the spring and inwardly of its said bent end portions, the plate is folded to form ribs 18 between which the nut is held.

From the foregoing description of my invention, it will be apparent that by engaging a screw-driver with the bolt and rotating the said bolt, the tension of the spring of the device may be adjusted to cause the rollers to bear more or less firmly against the sash stile, according to the direction of the rotation of the bolt. It will be apparent, further, that this adjustment may be made merely by raising the window sash and adjusting the bolt, and that the removal of the sash from the window frame or the removal of the device from its seat in the frame stile is avoided.

In the form of the invention shown in Fig. 5 of the drawings, the lower spindles 10, instead of being guided in the guide channels 8, are journaled in the bearings 20 formed at the ends of tongues 21 which latter are formed by bifurcating each end of the spring 11, the rollers being received in the corresponding bifurcation.

I claim:—

1. In a device of the class described, a plate, rollers mounted upon the plate, a spring bearing at its ends against the rollers, and an adjusting screw engaged through the spring intermediate its ends

and having its head counter-sunk in the said plate.

2. In a device of the class described, a plate, rollers mounted upon the plate, a spring bearing at its ends against the rollers, a bolt engaged through the plate and the spring intermediate of its ends, a nut threaded upon the bolt, and means upon the spring engaging the nut.

3. In a device of the class described, a plate, rollers mounted upon the plate, a spring bearing at its ends against the rollers, an adjusting bolt engaged through the plate and through the spring intermediate of its ends, a nut engaged upon the said bolt, and a member fitted upon the spring and provided with spaced ribs engaging opposite sides of the nut.

4. In a device of the class described, a plate, a housing integral with the plate and provided in its walls and adjacent each end with guide journals, rollers having spindles projecting at their ends into the said journals and guided therein, and a spring connected intermediate of its ends to the plate and having its end portions extending between the said walls of the housing and bearing against the rollers.

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

BENJAMIN F. THOMPSON.

Witnesses:

G. P. MARDEN,
C. S. FOSTER.