J. B. GLOWACKI.

WINDOW POSITIONING DEVICE.

APPLICATION FILED AUG. 30, 1912.

1,068,888.

Patented July 29, 1913.

2 SHEETS—SHEET 1.

Fig. 1

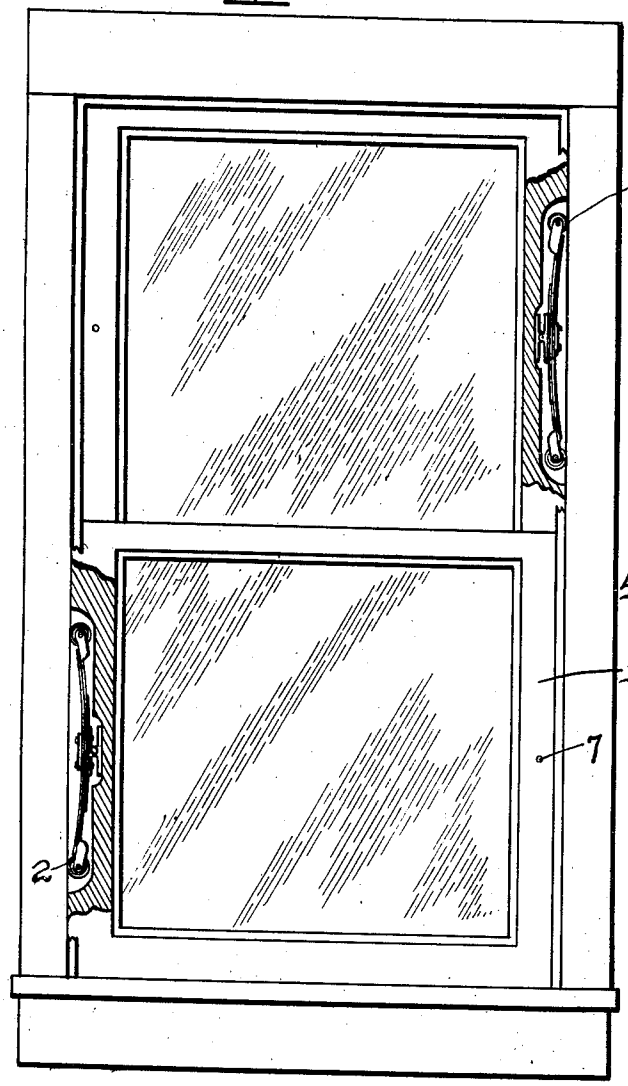
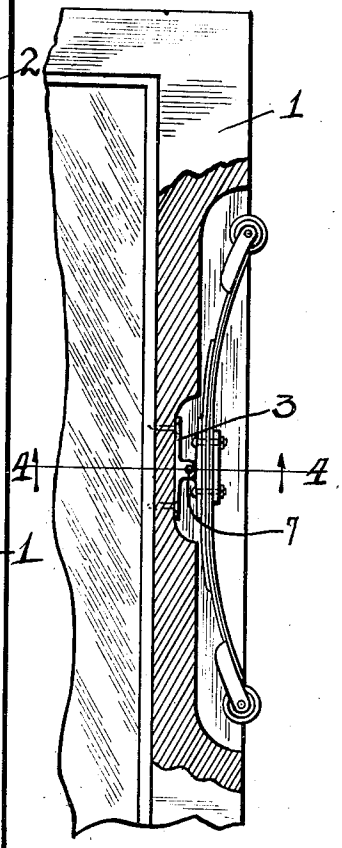


Fig. 2



Witnesses

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2 SHEETS—SHEET 2.

Fig. 3

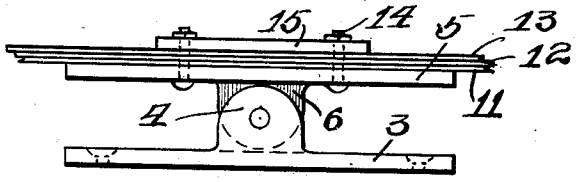


Fig. 4

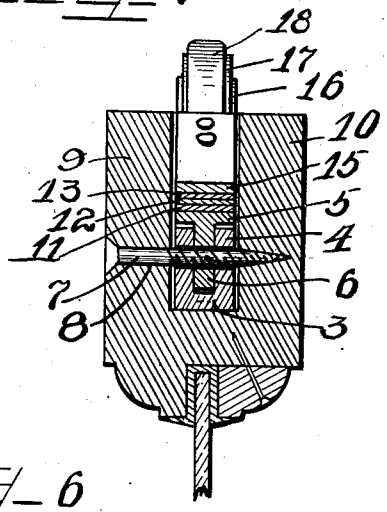


Fig. 5

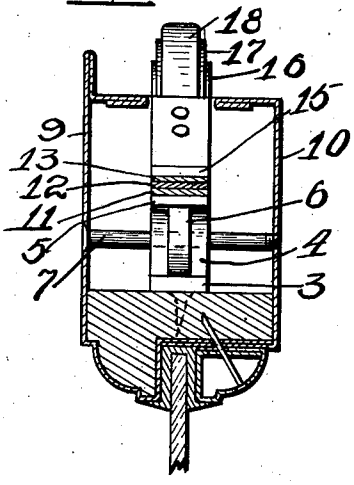


Fig. 6

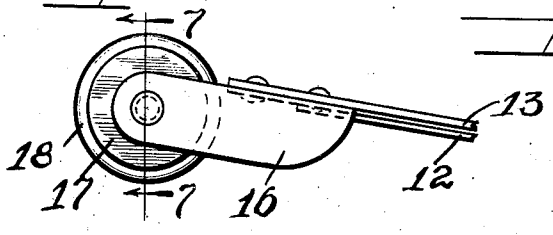
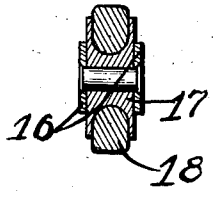


Fig. 7



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN B. GLOWACKI, OF CHICAGO, ILLINOIS.

WINDOW-POSITIONING DEVICE.

1,068,888. Specification of Letters Patent. Patented July 29, 1913.

Application filed August 30, 1912. Serial No. 717,844.

To all whom it may concern:

Be it known that I, JOHN B. GLOWACKI, a citizen of the United States, and a resident of the city of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Window-Positioning Devices; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the numbers of reference marked thereon, which form a part of this specification.

This invention relates to improvements in "window positioning devices" and more particularly to that class of positioning devices set forth in my prior application for patent for "positioning devices for windows," filed Nov. 13, 1911, Serial No. 659,930.

It is an object of the invention to provide a construction whereby a plurality of spring pressed friction rollers may be pivoted within the side rails of a sash in such a manner that the said rollers will at all times bear against the jamb of the window with equal pressure.

It is also an important object of this invention to provide a construction which may be pivoted within the side rail of a sash upon a screw or pin which is readily accessible from the exterior of the sash.

It is finally an object of this invention to provide a simple, durable and efficient window positioning device which will be inexpensive to construct and maintain and which may be readily applied to a sash by one that has not had previous experience.

The invention (in a preferred form) is illustrated in the drawings, and hereinafter more fully described.

In the drawings: Figure 1 is a front elevation, partly broken away, of a window frame and sash, illustrating the application of devices embodying my invention. Fig. 2 is an enlarged fragmentary view of a sash showing the positioning device in elevation. Fig. 3 is an enlarged fragmentary side elevation of the device shown in Figs. 1 and 2. Fig. 4 is a section taken on line 4—4 of Fig. 2. Fig. 5 illustrates the manner in which the device may be attached to a metallic sash. Fig. 6 is an enlarged fragmentary detail of one of the friction members. Fig. 7 is a section on line 7—7 of Fig. 6.

As shown in the drawings: 1, indicates the side rail of a slidable sash such as window sash and 2 the jamb of the window frame. The sash and frame may, of course, be constructed in the usual or any preferred manner. The hanging stile or rail on each side of the sash, is provided in its outer edge with a recess which may be constructed in any suitable manner by mortising or otherwise, as illustrated in Figs. 1, 2 and 4, on each side of the sash, and near the middle of said stile or rail.

As shown, the positioning and holding device comprises a relatively short back plate 3, rigidly secured within the recesses in the sash, and is provided midway between its ends with outwardly directed parallel apertured lugs 4. A pivot plate 5, provided with a central apertured lug 6, corresponding with the lugs 4, is pivoted to the back plate 3, by means of a pivot pin or screw 7, which extends through an aperture 8, in one side 9, of the side rail of the sash and then through the corresponding apertures in the lugs 4 and 6, and is then threaded into the adjacent portion 10, of the sash to afford a rigid construction.

As shown in Fig. 3, a spring comprising a plurality of leaves 11, 12 and 13, is firmly secured at its middle upon the plate 5, by means of bolts 14, which extend through the same and the clamping plate 15. A fork or yoke 16, is rigidly secured to each of the outwardly curved ends of the outer leaf 13, of the spring, and a friction wheel, comprising a metallic or other suitable peripherally grooved body portion 17, having a resilient tire 18, thereon, is journaled in each of said yokes. As shown, the curvature of the upwardly and downwardly directed ends of the leaf spring is such as to normally project the wheels against the jamb face. The construction illustrated in Fig. 5 is substantially identical with that shown in Fig. 4, except that the device is shown in connection with the sheet metal sash construction such as shown in my prior application for patent for sheet metal window and frame construction Serial No. 717,845.

In assembling the device for use the back plate 3, is secured within the recess in the side rail of the sash and the plate 5, having the spring connected therewith is placed in such a position in the recess that the lug 6, thereon, extends between the corresponding lugs 4, on said back plate. The pivot pin or bolt 7, is then inserted through the aperture

8, in the sash and the corresponding apertures in the lugs 4 and 6, and the inner end thereof is threaded into the sash.

The operation is as follows: After having secured the device in its proper position in the recesses in each of the side rails of the sash, said sash may be raised and lowered at will, and, inasmuch as the leaf springs are pivotally supported upon the base plate, the friction rollers must consequently bear against the jambs with equal pressure and serve to hold the sash at all times true in the frame as well as prevent the rattling of the sash in the frame.

It is obvious from the construction described that the springs for engaging the friction members against the jamb may be of any suitable kind and that other details of construction may be modified without departing from the principles of this invention. I therefore do not purpose limiting the patent granted otherwise than necessitated by the prior art.

I claim as my invention:

1. The combination of a slidable window sash, having a recess in each side rail thereof, of a back plate firmly secured in each recess, apertured lugs on said back plate, a pivot plate having a lug thereon corresponding with the lugs on the back plate and adapted to extend therebetween, a spring connected with said pivot plate, rollers journaled thereon and forced thereby normally outward and a pin extending from the exterior of the sash, through the apertures in the lugs on the back plate and pivot plate into the sash and acting to pivotally connect said back plate and pivot plate together.

2. The combination of a slidable window sash, having a recess in each side rail thereof, of a back plate firmly secured in each recess, a pivot plate, a spring connected with said pivot plate, rollers journaled thereon and forced normally outward thereby, and a pin extending from the exterior of the sash, through the back plate and pivot plate and into the sash and acting to pivotally connect said back plate and pivot plate together.

In testimony whereof I have hereunto subscribed my name in the presence of two subscribing witnesses.

JOHN B. GLOWACKI.

Witnesses:
CHARLES W. HILLS, Jr.,
GEORGE R. MOORE.