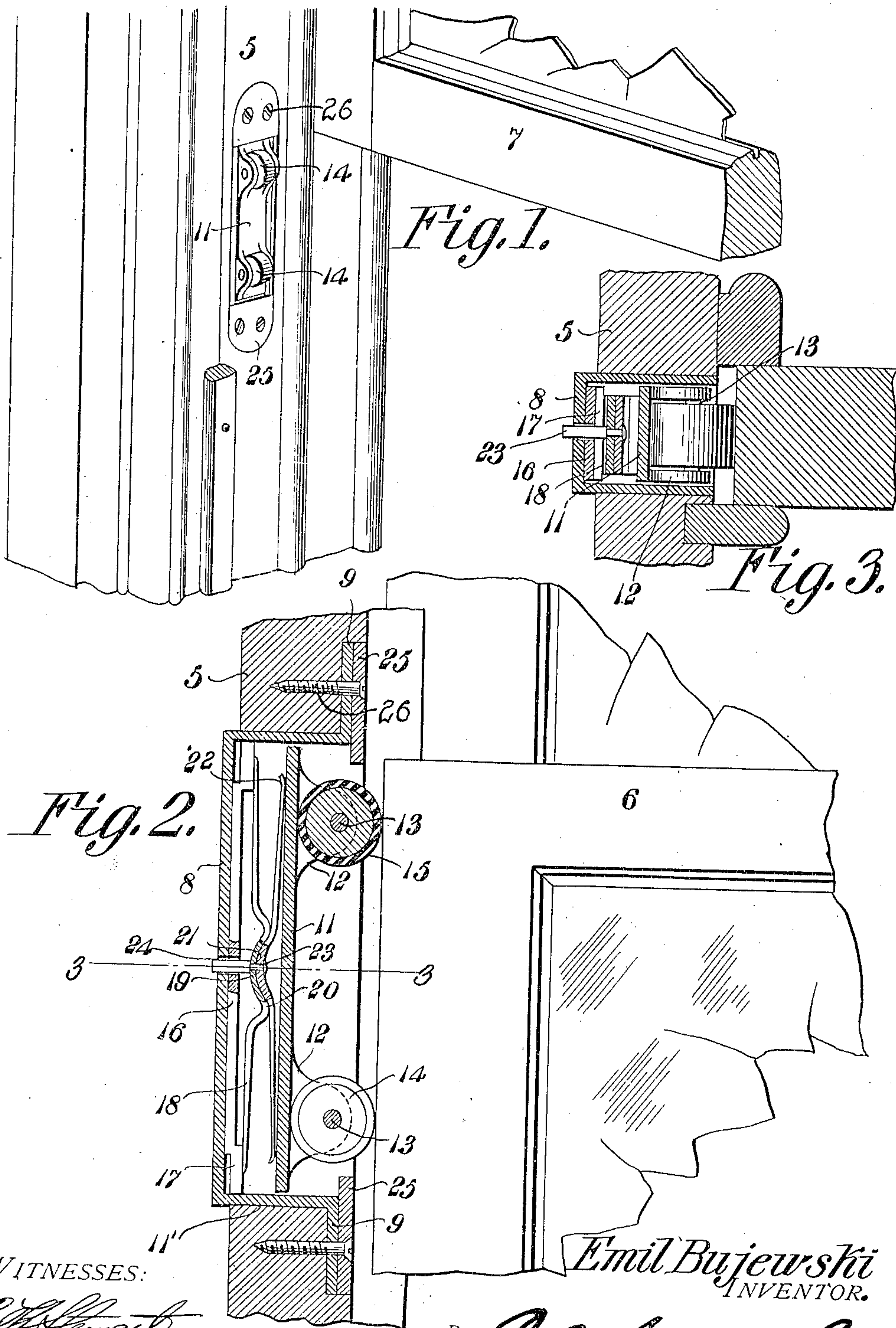


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PATENTED FEB. 5, 1907.

E. BUJEWSKI.
WINDOW SASH HOLDER.
APPLICATION FILED OCT. 10, 1906.



WITNESSES:
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UNITED STATES PATENT OFFICE.

EMIL BUJEWSKI, OF ST. LOUIS, MISSOURI.

WINDOW-SASH HOLDER.

No. 843,439.

Specification of Letters Patent.

Patented Feb. 5, 1907.

Application filed October 10, 1906. Serial No. 338,283.

To all whom it may concern:

Be it known that I, EMIL BUJEWSKI, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented a new and useful Window-Sash Holder, of which the following is a specification.

This invention relates to sash-holders for windows, transoms, and similar closures, and has for its object to provide a comparatively simple and inexpensive device of this character by means of which the sash may be adjusted vertically of the window-frame and supported in adjusted position without the employment of the usual suspension-cords and counterweights.

A further object is to provide a casing or housing having a plurality of anti-friction-rollers journaled therein and adapted to yieldably engage the window-sash for holding the latter in adjusted position.

A further object is to provide means for locking the roller-supporting frame within the casing and means interposed between the casing and roller-supporting frame for yieldably supporting the latter in engagement with the window-sash.

A still further object of the invention is to generally improve this class of devices, so as to increase their utility, durability, and efficiency, as well as to reduce the cost of manufacture.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, and illustrated in the accompanying drawings, it being understood that various changes in form, proportions, and minor details of construction may be resorted to within the scope of the appended claims.

In the accompanying drawings, forming a part of this specification, Figure 1 is a perspective view of a portion of a window frame and sash provided with a holder constructed in accordance with my invention. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a transverse sectional view taken on the line 3-3 of Fig. 2.

Similar numerals of reference indicate corresponding parts in all of the figures of the drawings.

The improved holder is principally designed for use on windows, transoms, and similar closures and by way of illustration is shown in position on a window of the ordinary construction, in which 5 designates the

window-frame, 6 the lower sash, and 7 the upper sash.

The device consists of a substantially rectangular casing or housing 8, designed for attachment to a window frame or sash and having one side thereof open and its end walls provided with laterally-extending lugs 9.

The casing 8 is seated in a mortise or recess 11, preferably formed in the window-frame 5, and yieldably supported within the casing is a roller-carrying frame 11, provided with spaced perforated lugs 12, between which are mounted for rotation on stub-shafts 13 suitable rollers 14, the peripheries of which are provided with rubber tires 15 for engagement with the adjacent window-sash.

Secured to the rear wall of the casing 8 is a supporting-plate 16, having its opposite ends offset to produce laterally-extending arms 17, which bear against the adjacent ends of a flat spring 18. The central portion of the spring 18 is provided with a depression 19, defining oppositely-disposed shoulders 20, and seated in said depression is a convex portion 21 of an auxiliary spring 22. The auxiliary spring 22 is secured to the spring 18 by means of a pin or lug 23, which extends through an opening or recess 24 in the rear wall of the casing, thereby to permit free expansion and contraction of the main and auxiliary springs. The opposite ends of the spring 22 are deflected laterally and bear against the roller-supporting frame 11, so as to yieldably support the rollers 15 in engagement with the window-sash, and thus hold the latter in adjusted position.

Secured to the lugs 9 are detachable plates 25, the inner ends of which extend in the path of movement of the roller-supporting frame 11 and serve to prevent said frame from being forced outwardly through the opening in front of the casing, said plates being secured to the lugs 19 by screws or similar fastening devices 26, which engage the window-frame 5 and also serve to fasten the casing or housing in position on said frame. It will thus be seen that the main and auxiliary springs will exert an outward pressure on the roller-supporting frame and yieldably support the rollers in engagement with the sash, thus serving to hold the sash in adjusted position without the employment of the usual suspension cords and weights. The rollers also prevent rattling of the window and in a measure dispense with the employment of weather-strips.

While the holder is shown applied to a window-frame, it is obvious that the same may be mounted on the sash with the roller bearing against the window-frame, the result accomplished being the same in both cases.

It will of course be understood that the rollers may be made in different sizes and that one or more of said rollers may be used in connection with each sash.

From the foregoing description it will be seen that there is provided an extremely simple, inexpensive, and efficient device admirably adapted for the attainment of the ends in view.

Having thus described the invention, what is claimed is—

1. In a sash-holder, the combination with relatively stationary and movable members, of a casing secured to one of said members and having an aperture formed therein, a roller-supporting frame slidably mounted in the casing, rollers journaled on said frame and adapted to bear against the adjacent member, a spring bearing against the casing and provided with a central depression, an auxiliary spring bearing against the roller-supporting frame and having its convex portion adapted to engage said depression, and a pin uniting said springs and extending through the aperture in the casing.

2. In a sash-holder, the combination with relatively movable and stationary members, of a casing secured to one of said members and provided with an aperture, a roller-supporting frame slidably mounted within the casing, a plate secured to the casing and having its opposite ends offset, a spring bearing against the offset ends of the plate, an auxiliary spring bearing against the roller-supporting frame, and a pin connecting said springs and slidably mounted within the aperture of the casing.

3. In a sash-holder, the combination with relatively stationary and movable members, of a casing secured to one of said members, a clamping member arranged within the casing and adapted to bear against the adjacent member, a spring having a depression formed therein and defining oppositely-disposed shoulders, and an auxiliary spring bearing against the clamping member and provided with a convex portion adapted to engage the walls of the depression.

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

EMIL BUJEWSKI.

Witnesses:

S. PYSHER,
JOHN HERING.