

(No Model.)

G. W. BECK.
SASH HOLDER.

No. 587,915.

Patented Aug. 10, 1897.

FIG-1-

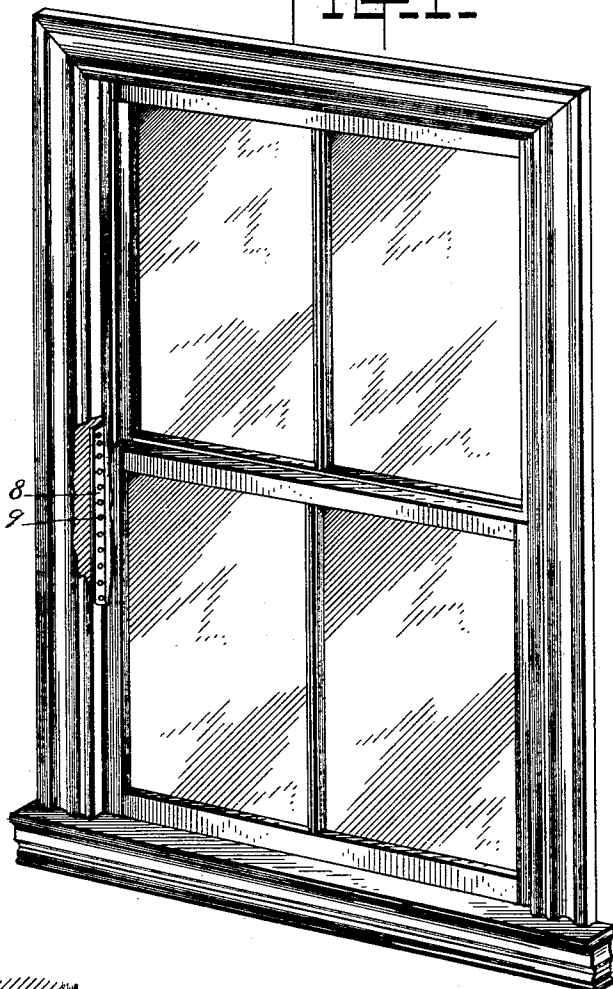


FIG-2-

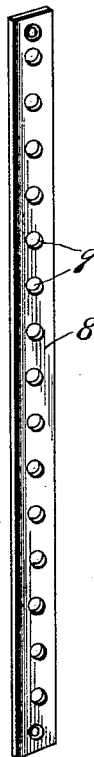


FIG-3-

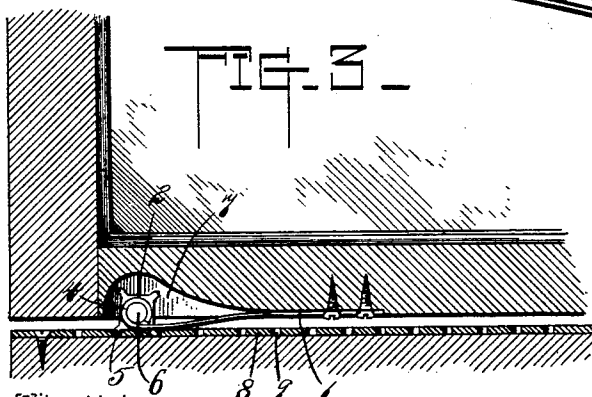
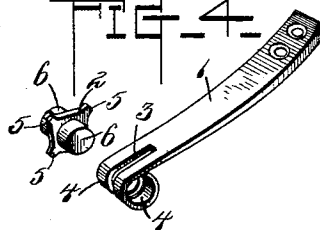


FIG-4-



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UNITED STATES PATENT OFFICE.

GEORGE WASHINGTON BECK, OF HAMILTON, TEXAS.

SASH-HOLDER.

SPECIFICATION forming part of Letters Patent No. 587,915, dated August 10, 1897.

Application filed October 16, 1896. Serial No. 609,075. (No model.)

To all whom it may concern:

Be it known that I, GEORGE WASHINGTON BECK, a citizen of the United States, residing at Hamilton, in the county of Hamilton and State of Texas, have invented a new and useful Sash-Holder, of which the following is a specification.

This invention relates to sash-holders; and the object in view is to provide a simple, cheap, and durable device of the nature referred to which will operate automatically when the window-sash is raised or lowered to hold the same wherever it is left without the use of a bolt or other similar positive fastening device.

To the ends above noted the invention consists in an improved sash-fastener embodying novel features and details of construction, all as hereinafter particularly set forth, illustrated in the drawings, and incorporated in the claim.

In the accompanying drawings, Figure 1 is a perspective view of a window-frame, &c., broken away to show the application of the perforated strip forming the rack-plate. Fig. 2 is a detail perspective view of the rack-plate. Fig. 3 is a detail vertical section showing the operation of the improved holder. Fig. 4 is a detail perspective view of the members of the sash-holder.

Similar numerals of reference designate corresponding parts in the several figures of the drawings.

The improved sash-holder contemplated in this invention consists, essentially, of a spring 1 and a toothed roller 2. The spring 1 is rigidly secured at one end to the outer edge of the side rail of a sash, and the free end of the spring is deflected laterally, so as to project normally outside of the edge of the sash, and the extremity of the spring is slotted, as indicated at 3, and the divided portions of such extremity upon each side of said slot are rolled in circular form, as indicated at 4, to form eyes or bearings for the roller.

The roller 2 is provided with flat edges or sides and is made substantially square, as shown in Fig. 4. The roller is also provided at each of its four corners with a tooth 5, for a purpose that will hereinafter appear, and upon each side the roller has laterally and

oppositely projecting trunnions 6, which enter and have their bearing in the eyes 4 of the spring 1.

The side rail of the sash is mortised out, as indicated at 7, to allow of the necessary vibration of the free end of the spring 1, and a rack-plate 8 is secured to the window-frame immediately opposite to the side bar of the sash. This rack-plate consists of a metal strip, which is provided with a longitudinal series of perforations 9, in which the teeth of the roller 2 engage as the sash is raised or lowered, and said plate extends vertically and practically the entire height of the sash.

The arrangement above described is duplicated at each side of the sash, and while the sash-holders are applied to the lower sash near its bottom edge the holders of the upper sash are applied thereto near the top edge.

By reason of the particular shape of the roller 2 as the sash is moved up or down said roller will vibrate the spring 1 and the spring will act by its tension to force the roller into engagement with the rack-plate. While the sash is moving, at least one of the teeth 5 must engage the rack-plate, but when the sash is stopped one of the flat sides or edges of the roller 2 will bear firmly against the rack-plate 8, while two of the teeth 5 will enter adjacent perforations in the plate 8. The sash will thus be firmly held at the point where it is left without the use of a bolt or similar positive fastening device, and as the wheels 2 and the rack-plates 8 are exact duplicates of each other on each side of each sash the sashes must necessarily travel up and down equally at both sides, so that they cannot bind or become wedged between the jambs of the window-frame.

It will be understood that the sash-holder above described is susceptible of changes in the form, proportion, and minor details of construction, which may accordingly be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

Having thus described the invention, what is claimed as new is—

A sash-holder consisting of a leaf-spring adapted to be secured at one end to the sash and having journals in its free end, a roller

mounted to revolve in said journals, said
roller being substantially square in cross-sec-
tion and provided with a projecting tooth at
each of its four corners, and a flat strip of
5 metal adapted to be secured to the window-
frame to be engaged by the flat portions of
the roller, said strip having a longitudinal
series of perforations into which the teeth on
the roller enter, whereby the sash may be
10 held in its adjusted position without the use

of a bolt or other similar positive fastening
device, substantially as described.

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

GEORGE WASHINGTON BECK.

Witnesses:

R. P. RICE,

J. G. W. PIERSON.