

No. 765,949.

PATENTED JULY 26, 1904.

R. H. WUNDER.
WINDOW.

APPLICATION FILED DEC. 22, 1903.

NO MODEL.

Witnesses
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WINDOW.

SPECIFICATION forming part of Letters Patent No. 765,949, dated July 26, 1904.

Application filed December 22, 1903. Serial No. 186,232. (No model.)

To all whom it may concern:

Be it known that I, ROBERT H. WUNDER, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented new and useful Improvements in Windows, of which the following is a specification.

In windows as ordinarily constructed spaces are left between the ends of the lips on the meeting-rails of sliding sashes and the inner edges or faces of the parting beads in a sash-frame in order to enable the sashes to freely move in the frame. Such spaces have, however, been found to be objectionable, because they admit the weather and render it difficult to keep a house warm in severely cold weather.

The object of my invention is to provide means calculated to close the said spaces, and thereby effectually exclude the weather, and this without rendering the sashes hard to raise and lower.

Other advantageous features of the invention will be fully understood from the following description and claims, when taken in connection with the accompanying drawings, forming part of this specification, in which—

Figure 1 is a broken perspective view illustrating a sliding sash properly arranged relative to one side stile of a sash-frame and a sliding sash removed from said frame, together with my novel device for closing the space between the ends of the lips on the meeting-rails of the sashes and the inner edge or face of the parting-bead. Fig. 2 is a transverse section on the line 2 2 of Fig. 1 and illustrating both sashes properly arranged relative to the side stile. Fig. 3 is a vertical central section taken through my novel device; and Fig. 4 is a face view of the beads with parts broken away, showing my improved device in position.

Similar letters designate corresponding parts in all of the views of the drawings, referring to which—

A is one side stile of a sash-frame. This stile has the usual runways *a b* and parting-bead *c*, separating the same, but is peculiar in that the parting-bead is cut away at a point in the same horizontal plane as the meeting-point of the meeting-rails of the sashes.

B C are sliding sashes arranged in the run-

ways *a b*, respectively, and having lips *d* on their meeting-rails *e*, the combined thickness of which lips is equal to the thickness of the parting-bead in order to prevent the passage of weather between the meeting-rails of the sashes when the sashes are closed.

D is the device constituting the preferred embodiment of my invention, which has for its purpose to close the space *f*, formed by cutting away the parting-bead *c*, as before stated, and thereby effectually prevent the entry of weather through said space. The said device comprises a suitable filling-strip *g*, disposed in the space *f* and an lined pocket *h* in the side stile A and having the ends of its face beveled, as indicated by *i*, and a spring *j* backing the said strip—i. e., interposed between the rear wall of the strip and the inner wall of the pocket *h* and designed to press the strip against the ends of the lips on the meeting-rails B and C when the sashes are in their closed position. The said strip *g* is of a size in transverse section, Fig. 2, to fully occupy the space between the ends of the lips on the meeting-rails and the side stile of the sash, and since it is held under pressure against the said ends of the lips it follows that with the sashes closed it will preclude the entry of weather. While this is so, it will be noticed that the beveled ends *i* of the strip will permit of the lips on the meeting-rails being readily moved into and out of engagement with the strip and that when the said lips are out of engagement with the strip the same does not press against any part of the sashes. From this it follows that while the strip will preclude the passage of weather between the ends of the lips on the sashes and the side stile it will not in any degree render hard the raising and lowering of the sashes.

It will be readily appreciated from the foregoing that notwithstanding the highly-useful purpose served by the device D, arranged, as described, relative to the bead on the side stile and the meeting-rails of the sashes said device is very simple and inexpensive, and its installation is attended by but little labor.

I have entered into a specific description of the device D, constituting the preferred embodiment of my invention, in order to impart

a full, clear, and exact understanding of the same. I desire it understood, however, that the said device D may be a weather-strip or any other device calculated to serve the purpose stated without involving a departure from the scope of my invention as claimed.

In windows of certain types but one of the sashes is provided with a lip to close the space between the meeting-rails of the two when the sashes are closed. In this construction the single lip corresponds in thickness to the parting-bead, and my novel device bears against the end of said lip alone when the sashes are closed.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a sash-frame, the combination of a stile having a parting-bead, a portion of which is removed to form a space, and a horizontally-yielding device arranged in said space and projecting beyond the plane of the inner edge or face of the parting-bead.

2. In a window, the combination with a stile of a sash-frame, having runways and a parting-bead separating said runways, and also having a portion of the parting-bead removed to afford a space, and sashes movable in the runways of the stile, and having one or more lips to close the space between their meeting-rails; of a horizontally-yielding device resting in the space formed in the parting-bead of the stile, and projecting beyond the inner edge or face of said parting-bead so as to yieldingly press against the end of the lip or lips, when the sashes are closed.

3. In a window, the combination with a stile of a sash-frame, having runways and a parting-bead separating said runways, and also having a portion of the parting-bead removed to afford a space, and sashes movable in the runways of the stile, and having one or more lips to close the space between their meeting-

rails when they are closed; of a device resting in the space formed in the parting-bead of the stile, and projecting beyond the inner edge or face of said parting-bead so as to bear against the end of the lip or lips when the sashes are closed, and having one or both ends of its face beveled.

4. In a window, the combination with a stile of a sash-frame, having runways and a parting-bead separating said runways, and also having a portion of the parting-bead removed to afford a space, and sashes movable in the runways of the stile, and having one or more lips to close the space between their meeting-rails when they are closed; of a device for closing the space at the end of the lip or lips when the sashes are closed, said device comprising a horizontally-yielding filling-strip arranged in the space formed in the parting-bead, and projecting beyond the inner edge or face so as to bear against the end of the lip or lips on the sashes, and a spring backing said strip, and adapted to hold it under pressure against the end of the lip or lips.

5. In a window, the combination with a stile of a sash-frame, having runways and a parting-bead separating said runways, and also having a portion of the parting-bead removed to afford a space, and sashes movable in the runways of the stile, and having lips on their meeting-rails; of a device resting in the space formed in the parting-bead of the stile, and projecting beyond the face of said parting-bead, and having the ends of its face beveled, and a spring contained in the stile, and backing the device.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

ROBERT H. WUNDER.

Witnesses:

PHILIP F. LARNER,
THOMAS E. TURPIN.