(No Model.)

G. P. RASCK.

WEATHER STRIP FOR WINDOW SASHES.

No. 301,157. Patented July 1, 1884.

Fig. 4

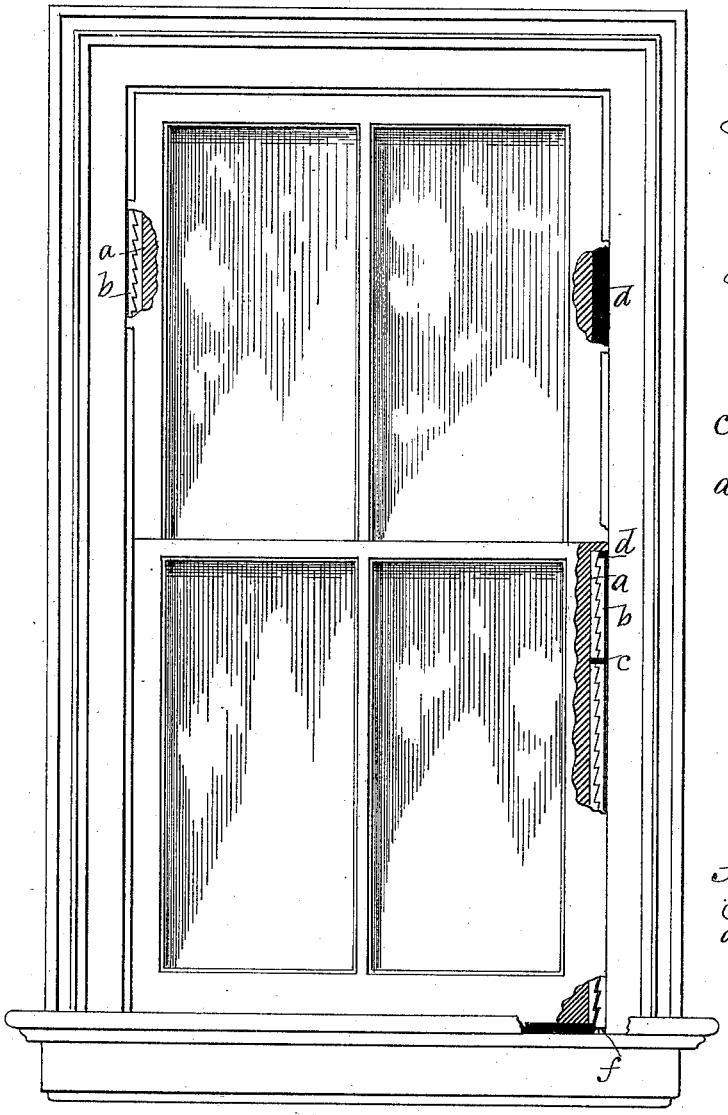

Fig. 2

Fig. 1

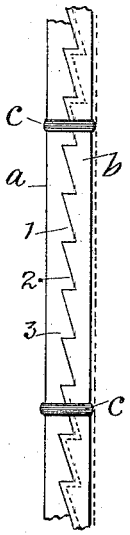

Fig. 3

Witnesses:
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UNITED STATES PATENT OFFICE.

GEORGE P. RASCK, OF DES MOINES, IOWA.

WEATHER-STRIP FOR WINDOW-SASHES.

SPECIFICATION forming part of Letters Patent No. 301,157, dated July 1, 1884.

Application filed December 31, 1883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE P. RASCK, of Des Moines, in the county of Polk and State of Iowa, have invented an Improved Weather-Strip and Sash-Fastening Device, of which the following is a specification.

The object of my invention is to produce air-tight joints between sliding window-sashes and the frames and bearings within which they move without producing friction and resistance to the movements of the sashes, and to prevent the sashes from rattling when the windows are closed.

It consists in providing two strips with notched edges and a scarf-joint connection to adapt them to be jointly inserted and operated in the grooved edge of a sash, as hereinafter fully set forth, in such a manner that the strips will engage the window-frame (when the sash is in position as required to close the window) to prevent the sash from rattling, and also to produce an air-tight joint, and will recede from the frame to facilitate the movement of the sash and the opening of the window.

Figure 1 of my accompanying drawings is a side view of a section of my scarf-jointed and adjustable weather-strip. Figs. 2 and 3 are transverse sections. Fig. 4 is a view of a window-frame and two sashes to which my strips are applied.

Jointly considered, these figures clearly illustrate the construction, application, and operation of my complete invention.

a and *b* are two mating strips, preferably made of hard wood. They may vary in width and thickness as desired, and must correspond in length with the sashes to which they are to be attached. Their contiguous edges are notched in such a manner as to produce a series of scarf-joints or overlapping inclined planes, 1 2 3.

c c are elastic bands, preferably rubber, that hold the two pieces in parallel position, and ready to be inserted in a groove, *d*, formed in the edge of a sash. In place of bands *c*, a continuous elastic tube may be used to hold the two pieces together, and to serve as a packing in producing air-tight joints. In Fig. 2 a cloth or other suitable strip of packing material is fixed over the edge of one of the strips, to aid in producing air-tight joints and preventing noise.

To apply weather-strips thus prepared, I simply form continuous grooves in the edges of the sashes, and insert the pieces *a* and *b* jointly in such a manner that the inner piece will be restricted from sliding, and the outer piece will be allowed longitudinal movement, and to project a little beyond the corner of the sash when the end of the sash is not in contact with the window-frame.

f in Fig. 4 represents an adjustable stop attached to the frame in such a position relatively to the projecting end of the sliding portion of the weather-strip that the projecting piece will come in contact with the stop *f*, to be moved longitudinally and also laterally relatively to the sash and the window-frame, as the end of the sash is closed against the frame, and the series of overlapping inclined planes 1 2 3 perform the functions of wedges in forcing the moving strip laterally to clamp it tightly against the window-frame, as required to produce an air-tight joint, and to fasten the sash to prevent rattling. A reverse motion of the sash relaxes the lateral pressure of the movable strip, and allows the sash to slide without any resisting friction on its edges.

I am aware that a wedge has been formed integral with the stile of a sash, and a rubber-faced sliding wedge adjustably connected with the jamb of a window; but my manner of forming and applying a detachable strip composed of two parts is novel and greatly advantageous.

I claim as my invention—

The scarf-jointed overlapping strips *a* and *b*, in combination with a sliding window sash and frame, substantially as shown and described, to operate in the manner set forth, for the purposes specified.

GEORGE P. RASCK.

Witnesses:

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WILKINS WARWICK.