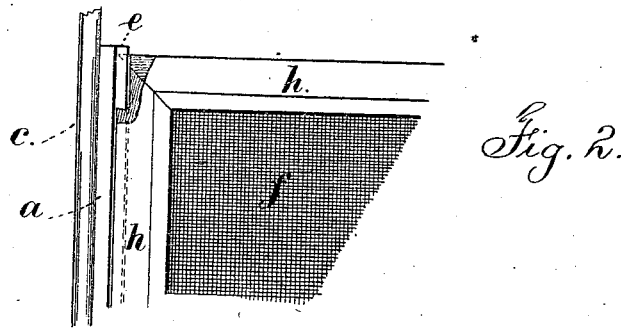
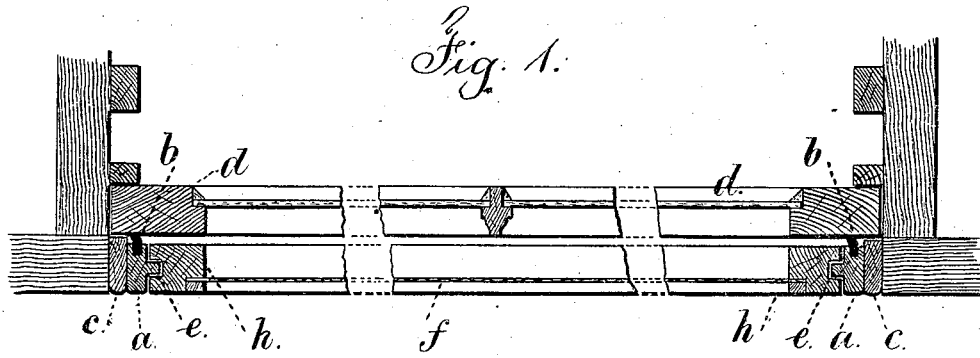


S. T. VARIAN.

Weather-Strip for Windows.

No. 159,867.

Patented Feb. 16, 1875.



Witnesses,

Char. H. Smith
Geo. T. Pickney

Inventor

Samuel T. Varian,

per Lemuel W. Terrell
att'y.

UNITED STATES PATENT OFFICE.

SAMUEL T. VARIAN, OF PLAINFIELD, NEW JERSEY.

IMPROVEMENT IN WEATHER-STRIPS FOR WINDOWS.

Specification forming part of Letters Patent No. 159,867, dated February 16, 1875; application filed January 23, 1875.

To all whom it may concern:

Be it known that I, SAMUEL T. VARIAN, of Plainfield, in the county of Union and State of New Jersey, have invented an Improvement in Weather-Strips, of which the following is a specification:

Weather-strips have been made of wood with a strip of india-rubber introduced into the edge, and these weather-strips have been nailed upon the stop-beads inside the window-frame, so that the edge of the rubber presses against the sash. At the same place, upon the stop-bead of the window-frame, there have been wooden strips fastened, having tongues or ribs entering grooves at the vertical edges of wooden frames containing wire-cloth or mosquito-netting, to keep out insects in summer-time, so that such wooden frames can slide up and down upon such strips. Heretofore, where weather-strips have been used, it has become necessary to move them, in order to apply the wooden strips for the netting-frames to slide upon. This change is costly, and injurious to the window-frame, the weather-strips, and the wooden slides.

My invention consists in a combined weather-strip and slide for the netting-frame, whereby the weather-strip retains its utility to keep out wind, and at the same time is capable of use as a slide for the mosquito-frame, so that separate slides for such frame are not required, and the strip and slide are always in place for either duty, and do not require to be changed periodically, according to the seasons.

In the drawing, Figure 1 is a sectional plan of the improved weather-strip, with the netting-frame, also in section; and Fig. 2 is an

elevation of the netting-frame at one corner thereof, and of a part of the weather-strip and slide combined.

The weather-strip is made of the wooden portion *a*, grooved at one edge to receive the strip of india-rubber, *b*, and this weather-strip is to be nailed or fastened to the stop-bead *c* of the window-frame, and the india-rubber presses against the surface of the sash *d*, as heretofore usual; but I make a rib, *e*, upon the outer side of the weather-strip *a*, or its reverse, a groove, and I use this as a slide for the frame *h*, that contains a netting or wire-cloth, *f*, to keep out insects, and is grooved upon its vertical edges, to fit the rib *e*.

This frame, containing wire-cloth or netting, is capable of being raised or lowered in the slides formed by the ribs *e*, and these weather-strips and ribs usually extending only about half the height of the window, allow the netting-frame to be introduced from above, or removed in the same manner.

By the use of this combined weather-strip and netting frame slide, there is no change in the fittings of the window in winter or summer, the netting-frame or window-screen only requiring to be lifted out or introduced to place.

I claim as my invention—

The combined weather strip and slide for a netting-frame or window-screen, made with the strip of india-rubber *b*, and the slide *e*, as set forth.

Signed by me this 15th day of January, 1875.
SAMUEL T. VARIAN.

Witnesses:

E. M. LAING,
J. H. ACKERMAN.