V. E. TISCHLER.

WEATHER STRIP.

APPLICATION FILED MAY 17, 1906.

956,002.

Patented Apr. 26, 1910.

2 SHEETS—SHEET 1.

Fig. 1.

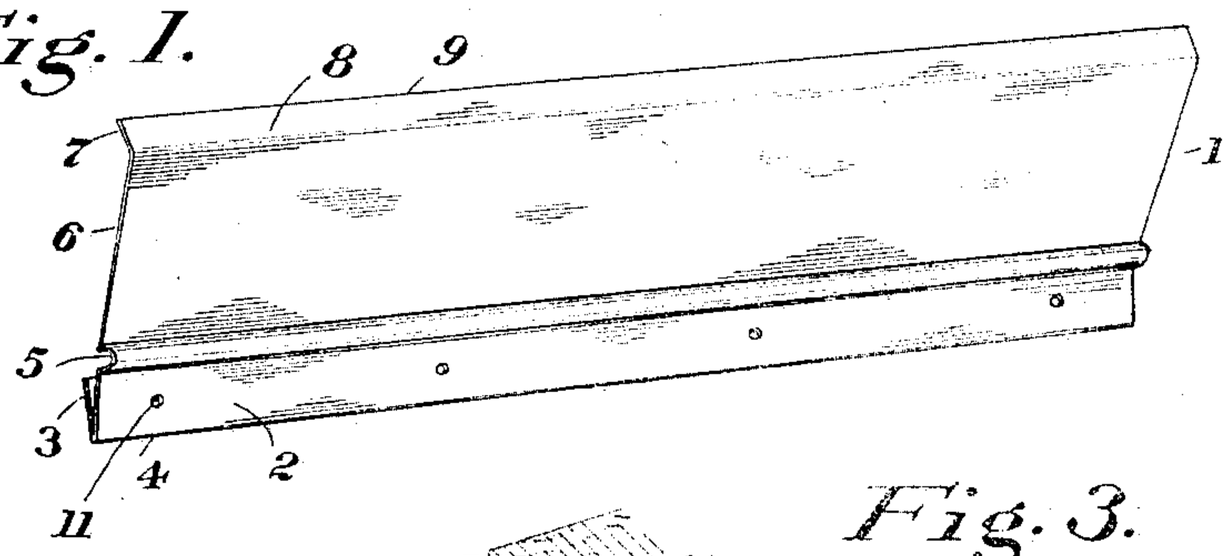


Fig. 2.

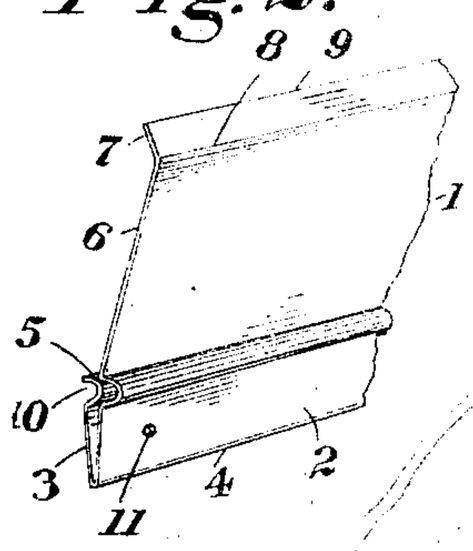
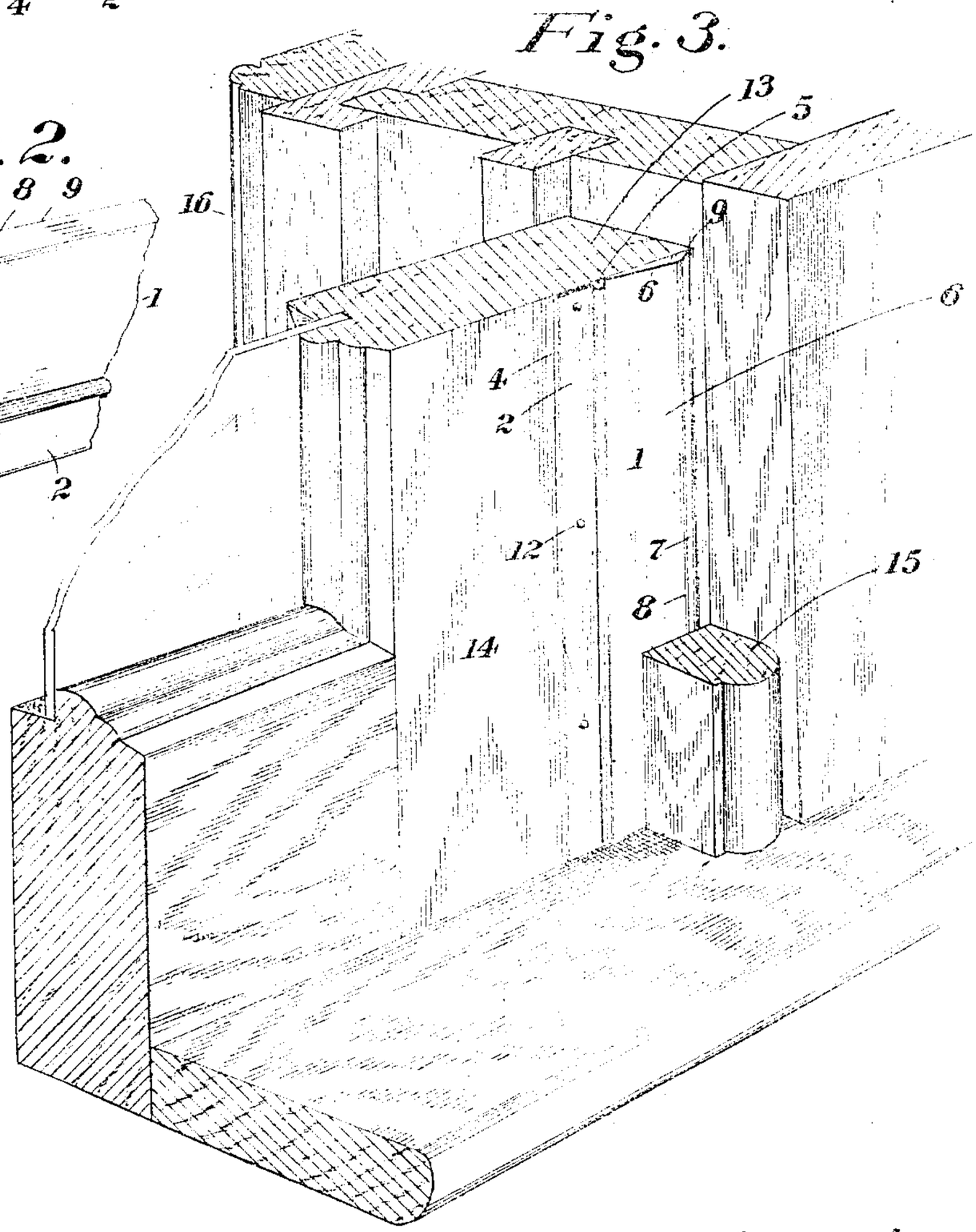


Fig. 3.



Witnesses.

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2 SHEETS—SHEET 2.

Fig. 4.

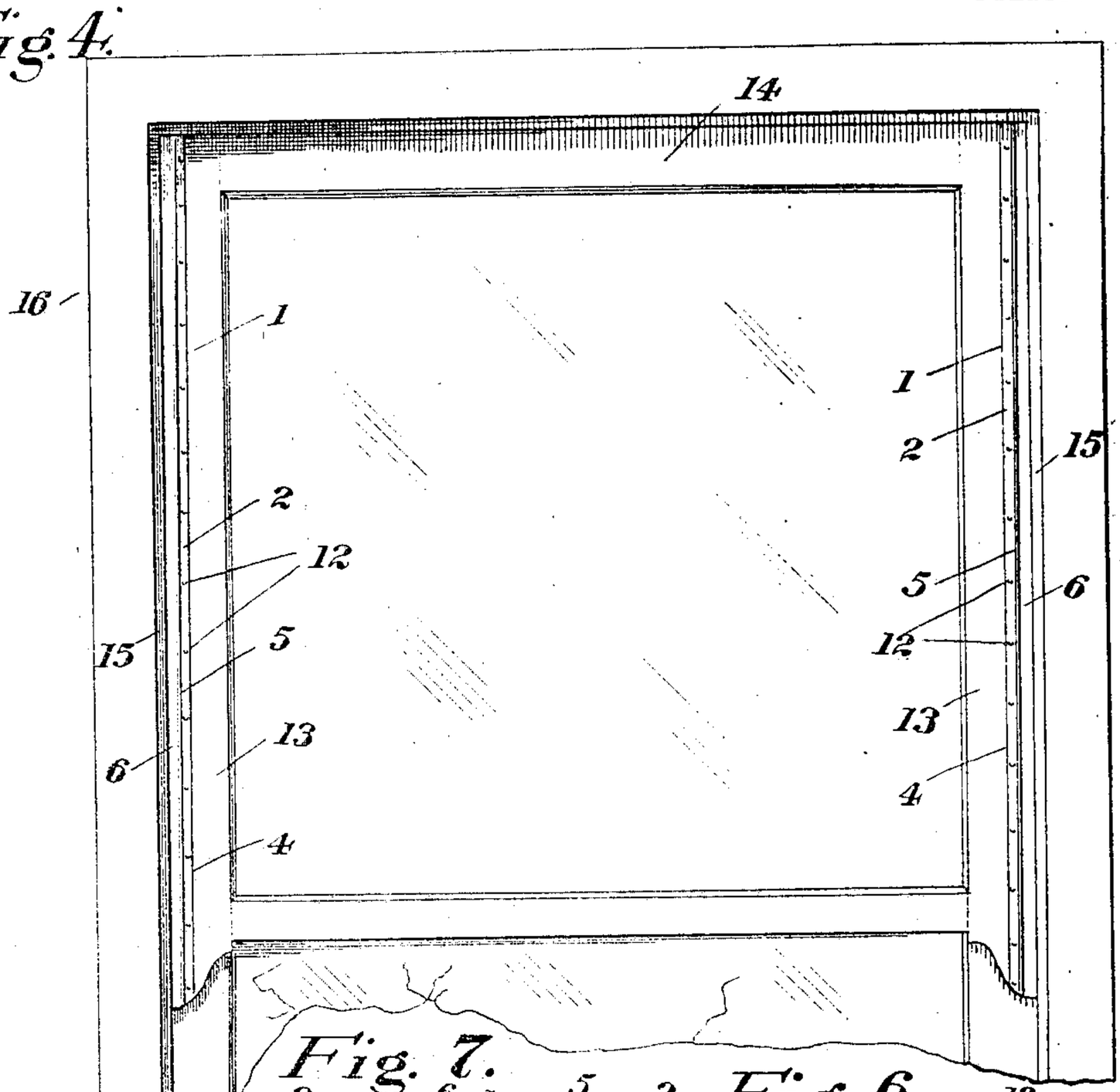


Fig. 7.

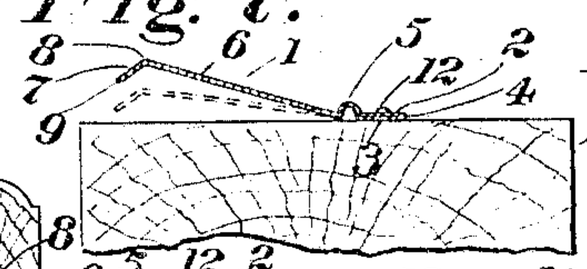


Fig. 6.

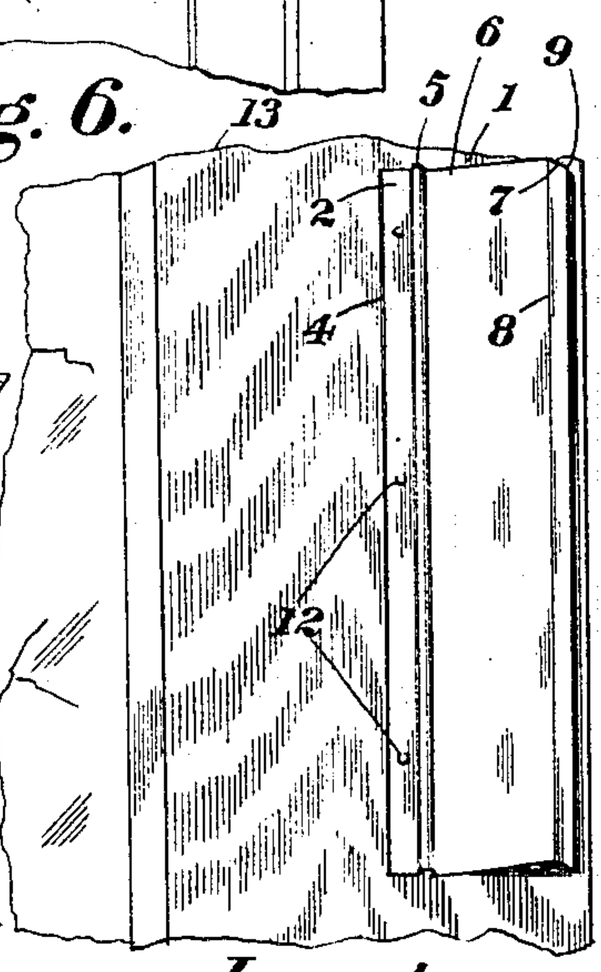
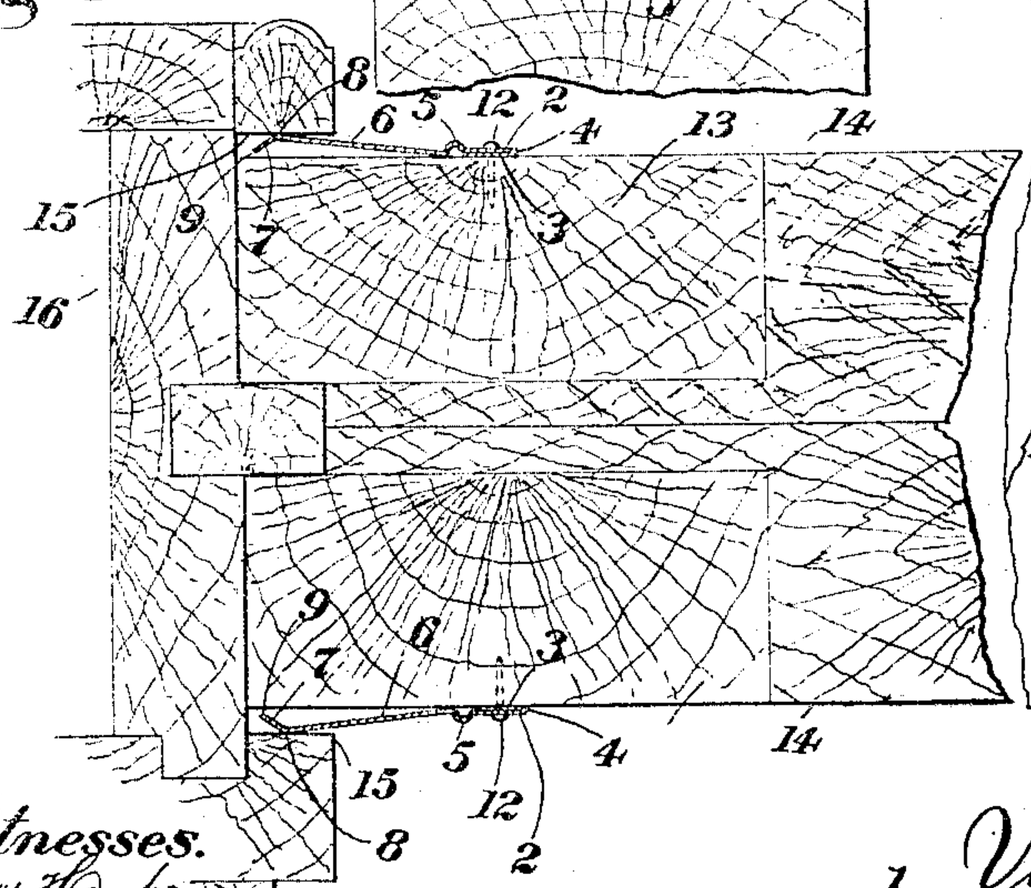


Fig. 5.



Witnesses.

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UNITED STATES PATENT OFFICE.

VICTOR E. TISCHLER, OF CINCINNATI, OHIO.

WEATHER-STRIP.

956,002. Specification of Letters Patent. Patented Apr. 26, 1910.

Application filed May 17, 1906. Serial No. 317,375.

To all whom it may concern:

Be it known that I, VICTOR E. TISCHLER, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Weather-Strips, of which the following is a specification.

My invention relates to means for tightening the joints in windows and doors to exclude dust, wind, rain, cold and warm air and noise.

The object of my invention is to provide a simple, durable and effective device for such purposes which can be readily, accurately and conveniently applied and which will hold the sash firmly in position in the window frame.

My invention consists in a strip of resilient material folded longitudinally upon itself along one edge to form a strong base and smooth edge, a corrugation adjacent said base to strengthen said strip and to give the proper angle to the body of the spring member, and the margin of said spring member formed at an angle to the body thereof to provide a narrow longitudinal bearing on said strip away from the free and sharp edge thereof whereby said strip is adapted to engage the window frame more snugly and efficiently than otherwise and without injury to the window frame.

My invention also consists in the peculiar construction and arrangement thereof as set forth and claimed.

In the accompanying drawings which serve to illustrate my invention: Figure 1 is a perspective view of the outer side of the strip before being applied. Fig. 2 is a perspective view showing a modified form of my invention. Fig. 3 is a perspective view of a part of a window showing my invention applied to the stile of the lower window sash. Fig. 4 is a front view of a window from the outside showing the appearance of same with my weather strips applied to the stiles of the window sash. Fig. 5 is an enlarged partial section taken on a line transversely of Fig. 4 showing my weather strips applied to both the upper and lower sash. Fig. 6 is an enlarged detail view of part of a window sash showing my weather strip applied thereto before the sash is placed in the window frame. Fig. 7 is a sectional view of my weather strip showing by full lines the natural position of the spring member and by dotted lines its position when in engagement with the window frame.

My weather strip is preferably constructed and applied substantially as follows:

A strip of resilient material 1 preferably made of brass is formed in the shape shown in Fig. 1 with a base 2 having a fold 3 bent upon and beneath said base whereby a smooth edge 4 is obtained and the base rendered strong and durable. Adjacent to base 2 I provide a longitudinal corrugation 5 preferably arc-shaped with its concave side or the groove therein upon the under side near the fold 3. A spring member 6 projects upwardly from said corrugation at an angle to said base and is provided with a margin 7 bent at an angle thereto, to provide a narrow and smooth bearing 8 adapted to engage the window frame and hold the sharp edge 9 of the spring member out of contact with the window frame, thereby avoiding injury thereto. The arc-shaped corrugation constitutes a part of the spring, its peculiar shape adding strength thereto and increasing its elasticity and longevity. In order to further increase the elasticity and durability of the spring member 6 I provide a corrugation 10 upon the fold 3 adapted to take into corrugation 5 as shown in Fig. 2.

The base 2 is preferably provided with suitable nail holes 11 arranged about two inches apart starting from each end. The weather strip may be conveniently, quickly and easily secured to the sash by means of nails 12 without removing the sash from the window frame or without removing any part of the window frame by simply inserting the strip 1 between the stile 13 of the window sash 14 and the bead 15 of the window frame 16 and nailing same thereto at a point which will bring the sharp edge 9 a short distance (about $\frac{1}{16}$ of an inch) from the edge of the stile in order to prevent the strip from engaging the window frame. The strips 1 may also be applied to the stiles of the window sash before the sash has been placed in the window frame or by removing it from the frame for that purpose, but as above explained this is unnecessary.

It will be observed that my strip does not require any grooving of the sash or frame or any separate parts except nails to hold it in proper position and by placing

these strips on the outside of the upper window sash in contact with the window frame and on the inside of the lower window sash in contact with the window frame as shown in Figs. 4 and 5 I am enabled to obtain a perfectly tight joint which prevents rattling at all times and in whatever position the upper and lower sashes may be adjusted. By having the margin 7 bent at an angle to the body of the spring member 6 it is prevented from catching on any roughness on the window frame.

A very desirable feature of this weather strip is the small amount of space required to adjust it in position and its adaptability to hold firmly and from rattling window sashes which have spaces of various sizes between them and the window frame. Another advantage which it possesses is the smallness and neatness of the surface of the strip which is exposed to view as shown in Fig. 4.

It is desirable to have a narrow bearing surface throughout the length of the strip to engage the window frame in order to avoid contact with irregularities therein thus fitting more snugly against the part thereof which it engages and more completely closing all cracks and crevices than otherwise.

I claim:

In a weather strip, a strip of resilient material having one part folded upon itself longitudinally to form a base, a corrugation adjacent to said base, a spring member projecting from said corrugation, and a corrugation upon the fold of the base adapted to engage the corrugation between said base and spring member, for the purposes set forth.

VICTOR E. TISCHLER.

Witnesses:

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MARGARET O'CONNOR.