

M. & J. FRINK.  
Weather-Strip.

No. 197,843.

Patented Dec. 4, 1877.

Fig. 1.

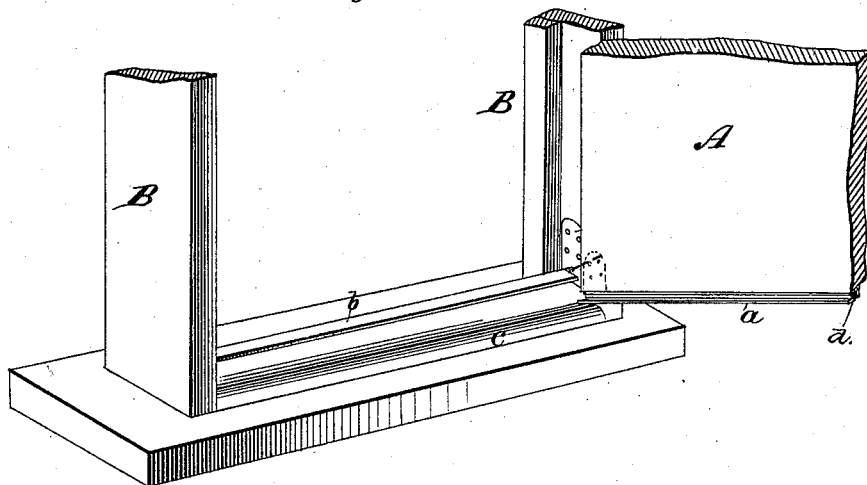
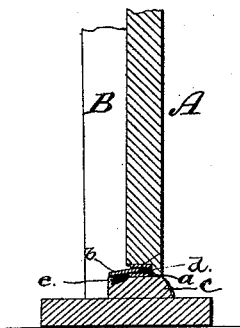


Fig. 2.



Attest

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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN WEATHER-STRIPS.

Specification forming part of Letters Patent No. 197,843, dated December 4, 1877; application filed August 3, 1877.

*To all whom it may concern:*

Be it known that we, MELVIN FRINK and JAMES FRINK, both of Farmington, in the county of St. Francois, in the State of Missouri, have invented a new and Improved Weather-Strip; and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Our invention relates to devices for excluding cold or drafts of air from dwelling-rooms; and it consists in the construction and arrangement of an improved so-called "weather-strip," made in two parts, one fitting into the other when the door or shutter to which our improvement is applied is closed, substantially as hereinafter more fully described, and pointed out in the claims.

In the drawings, Figure 1 is a perspective view, showing the application of our invention to the under side of a door; and Fig. 2 is a vertical section of the door, strip, and door-sill.

Similar letters of reference indicate corresponding parts in both the figures.

A is the door, B B the door-posts, and *c* the sill. Pivoted in each of the posts, near the bottom, is a flat metal strip or plate, *b*, which projects forward over the sill, and has a rubber strip, *e*, narrower than itself, inserted under it, so that plate *b* will overlap strip *e*, as shown in Fig. 2. To the under side of the door A is secured another metal strip or plate, *a*, the ends of which are bent up over the lower corners of the door, and held in place by screws or brads, so as to leave an open space or recess between the under side or edge of the door and strip *a*, into which is inserted a narrow rubber strip, *d*.

From the foregoing description, taken in connection with the drawings, the operation of our invention will be readily understood.

When the door or shutter is closed, as in Fig. 2, strip *a* will enter the recess between plate *b* and the sill, compressing the rubber strip or packing *e* and forming a tight joint. In like manner plate *b* will enter the recess below the edge of the door, and form a tight joint with the packing *d*, so that it will be absolutely impossible for drafts of air to pass in under the door.

Plate *a* may, if desired, be made twice the width of plate *b* and doubled, the packing-strip *d* being inserted into the recess formed by doubling it; but this is not necessary unless the open space between the edge of the door and the sill is unusually large.

It is obvious that our invention is applicable to hinged doors, shutters, or windows of all kinds, and that it may be used at the sides and top as well as at the bottom.

Having thus described our invention, we claim and desire to secure by Letters Patent of the United States—

1. The combination of the sill *c*, packing-strip *e*, and overlapping hinged plate *b*, substantially as and for the purpose herein shown and specified.

2. In combination with the sill *c*, having packing *e* and hinged strip *b*, the door A, having plate *a* and packing-strip *d*, substantially as and for the purpose herein shown and specified.

MELVIN FRINK.  
JAMES FRINK.

Witnesses:

J. D. PERKINS,  
A. E. FRINK.