

JACOB HAESSEL.

Improvement in Weather-Strips.

No. 127,599.

Patented June 4, 1872.

Fig. 1.

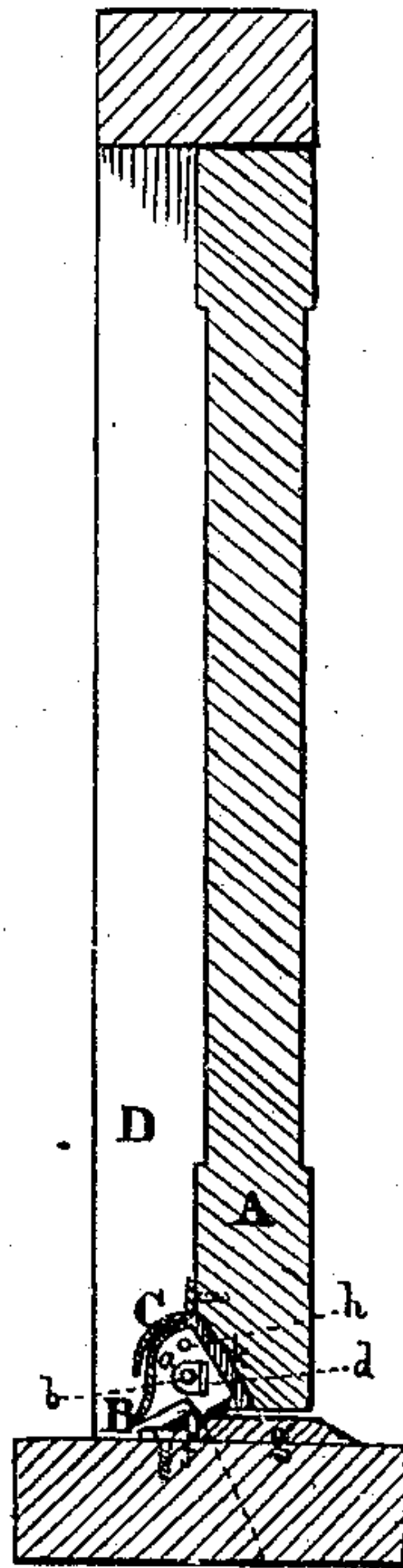
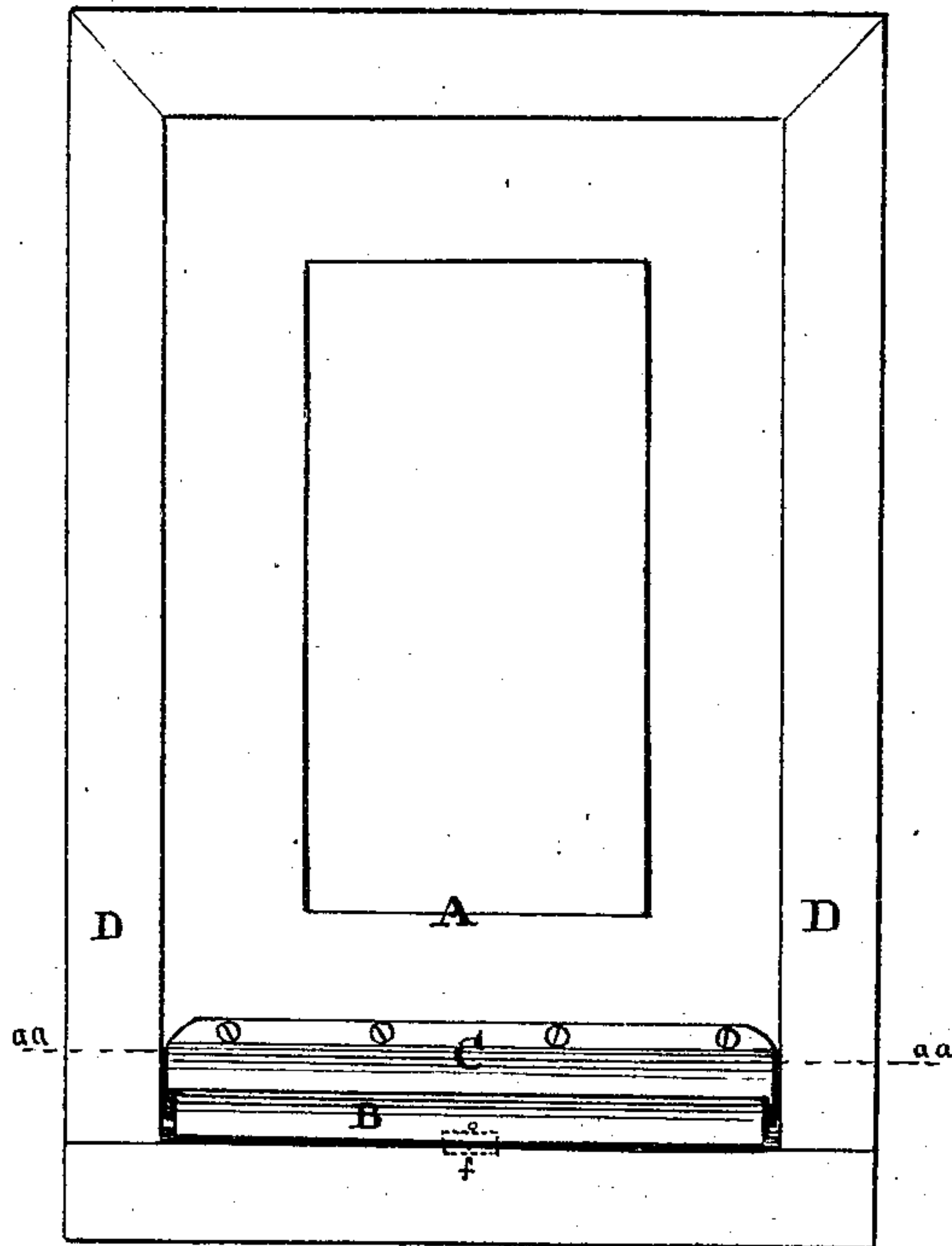
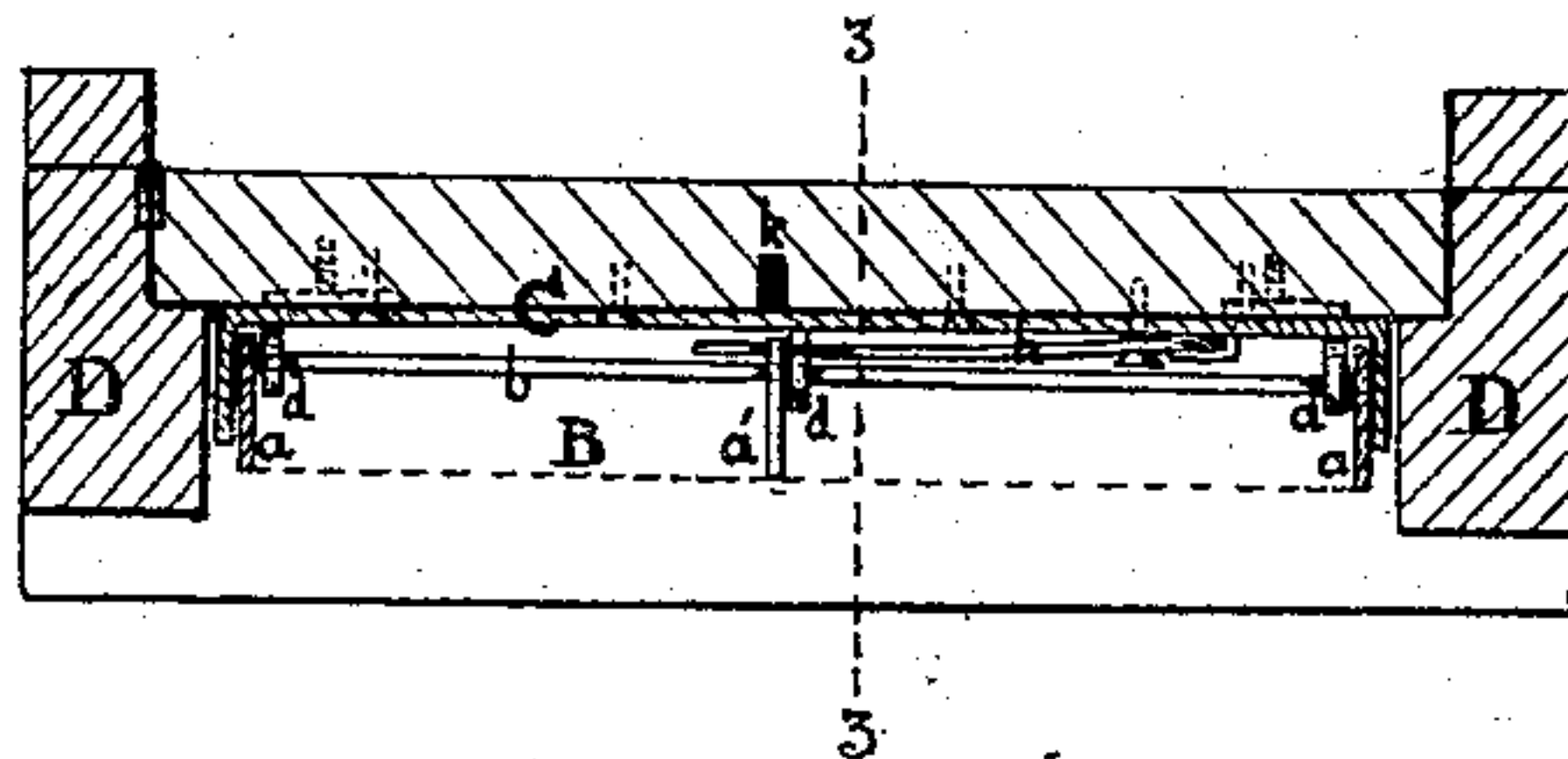


Fig. 2

(Sec. Thro. 3.3 fig. 3.)

Fig. 3.
(Sec. thro' aa, aa,
fig. 1.)



Scale - 1 inch to 1 foot.

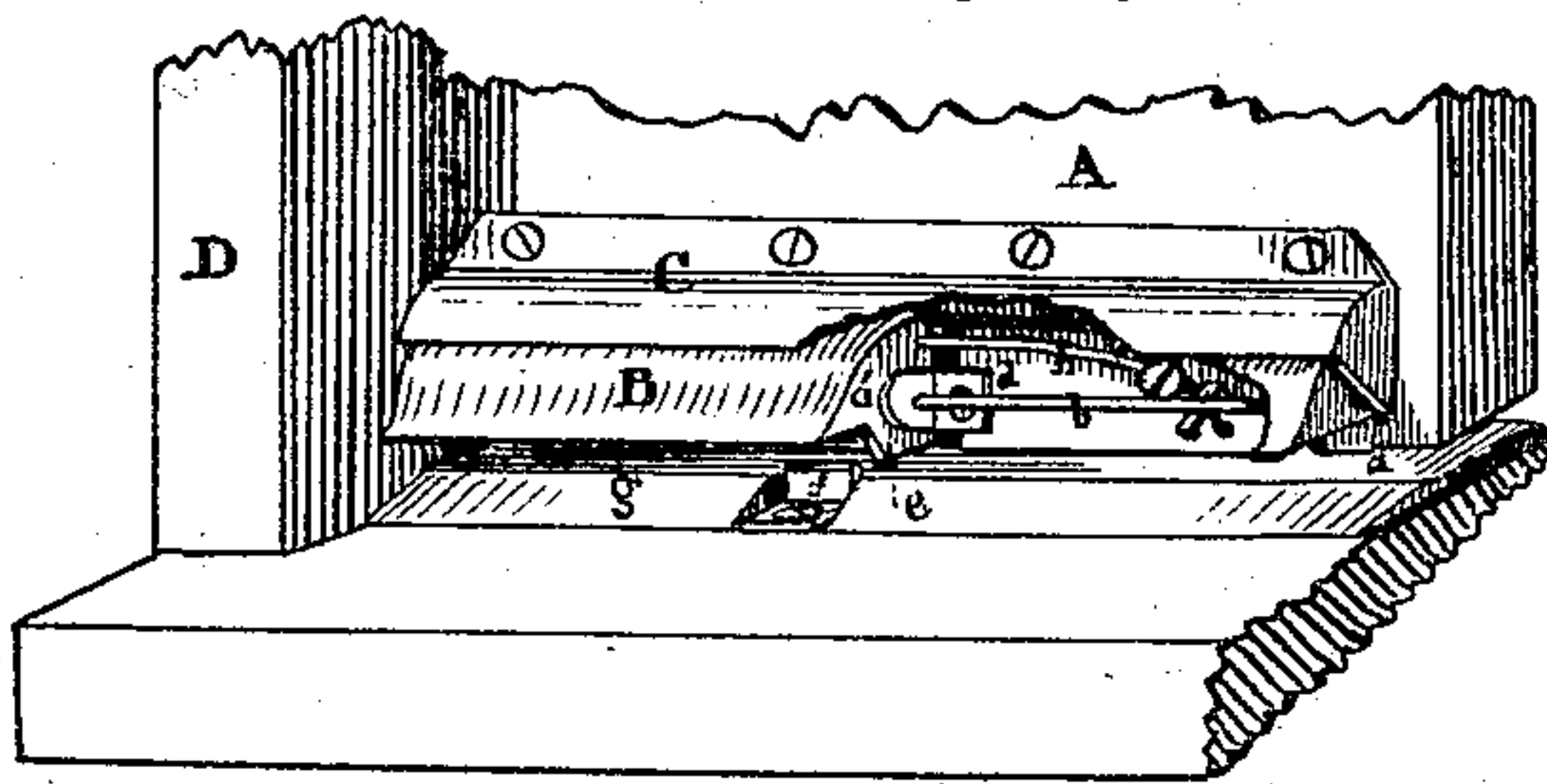


Fig. 4.

Witnesses.
Henry M. Miles
James M. Morris

Jacob Haessel,
by Edmund Shurtown,
his Atty in Fact

UNITED STATES PATENT OFFICE.

JACOB HAESSEL, OF PEORIA, ILLINOIS.

IMPROVEMENT IN WEATHER-STRIPS.

Specification forming part of Letters Patent No. 127,599, dated June 4, 1872.

To all whom it may concern:

Be it known that I, JACOB HAESSEL, of the city of Peoria, in the county of Peoria and in the State of Illinois, have invented an Improvement in Weather-Strips for Doors; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawing making a part of this specification, in which like letters of reference refer to like parts, and in which—

Figure 1 represents an elevation of the door and weather-strip; Fig. 2, an elevation (sectional) through lines *z z*, Fig. 3; Fig. 3, horizontal section along line *a a a a*, Fig. 1; Fig. 4, a perspective view, with part of strip removed.

This invention consists of a strip of metal pivoted within a hood or guard, and is made to turn down onto the threshold by the pressure of a lug against a stop or catch set in said threshold, but is kept back, when the door is open, by a spring. The hood or guard and the movable weather-strip are attached to the bottom of the door, and the strip closes against the threshold when the door is shut, and excludes rain, wind, and snow.

A is the door; D D the jambs; C, a hood of thin metal, attached to the door horizontally above the lower edge of the same, which covers a second metal strip, B, of similar shape, which is mounted at its middle part and at either end on attached brackets *a a'*. These are pivoted upon a horizontal rod, *b*, which passes through each bracket, and the rod is held against the door by three bearings *d d d* screwed to the door. The central bracket *a'* is provided with a lug, *e*, which strikes the catch *f* set in the threshold *g* on closing the door, and brings down the lower edge of the strip B "flush" with the said threshold. The

upper extremity of this bracket *a'* is engaged on the end of a spring rod, *h*, which presses the upper part of said strip B against the door, so as to keep the same from striking the threshold before the door is closed. The spring *h* is a wire or rod, firmly fastened at one end to the door or other fixed point. The recess *k* in the door receives the lug when the door is closed.

The operation of this device is as follows: When the door A is open the strip B remains raised, the spring *h* above the pivot-rod *b* pressing its bracket *a'* against the door, so as not to strike the threshold until the door closes, when the catch *f* is struck by the lug *e* of said bracket, and the strip B is then forced down flush against the outer slope of the threshold-strip *g* or threshold, so as to exclude rain, snow, and wind.

The whole of the mechanism is defended by the hood C, whereby it is protected from rain or snow; hence it cannot become clogged; both the hood and the strip B are also covered at either end next to the jambs D D, also for this purpose.

What I claim as my invention is—

The weather-strip B C, when constructed with the hood C, the pivot-rod *b*, bearings *d d d*, self-adjusting strip B, with its brackets *a a'*, lug *e*, spring *h*, in combination with the catch *f*, threshold *g*, and door A, substantially as described.

In testimony that I claim the foregoing door weather-strip I have hereunto set my hand this 4th day of March, 1872.

JACOB HAESSEL.

Witnesses:

JAMES M. MORSE,
HENRY W. WELLS.