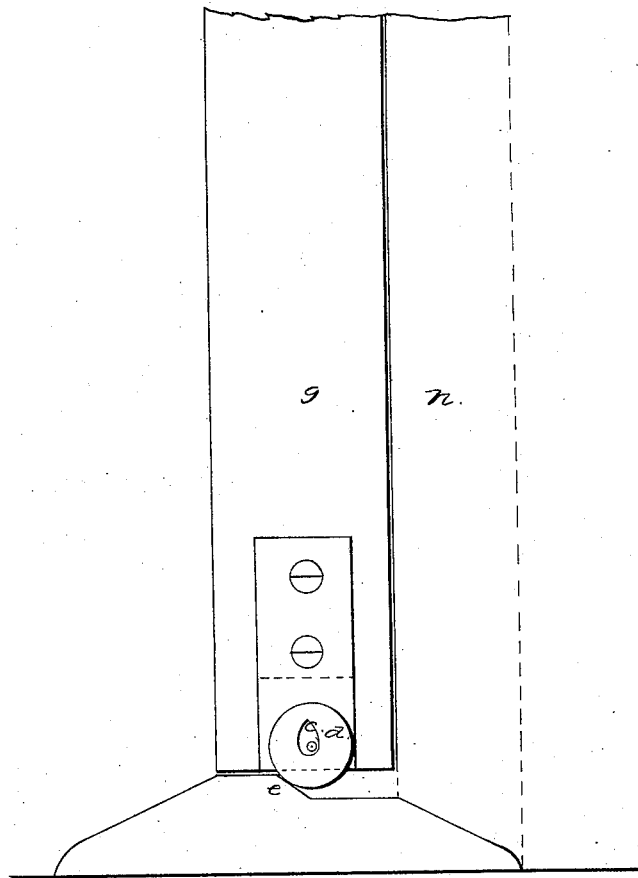


H. C. Brown,

Weather Strip,

No. 6,078.

Patented Jan. 30, 1849.



UNITED STATES PATENT OFFICE.

HIRAM C. BROWN, OF XENIA, OHIO.

ROLLER WEATHER-STRIP.

Specification of Letters Patent No. 6,078, dated January 30, 1849.

To all whom it may concern:

Be it known that I, HIRAM C. BROWN, of the town of Xenia, in the county of Greene and State of Ohio, have invented a new and efficient Mode of Making the Bottoms of Doors of All Descriptions Impervious to the Weather; and I do hereby declare that the following is a full and exact description.

The nature of my invention consists in providing a roller of any known material for the bottoms of doors and windows inclosed in a groove, and supported as described.

To enable others skilled in the art to make and use my invention I will proceed to describe its construction and operation.

In the bottom of the door after determining the size of roller to be used I make a groove nearly an $\frac{1}{8}$ of an inch larger than the roller and as deep as it is wide, and in each edge of the door I let in a small plate of about the width of the groove to which the roller is suspended by means of small wire gudgeons in the end of the roller. The holes in the plates are made considerably larger than is necessary merely to receive the gudgeon in order that the roller may play up and down and laterally with perfect freedom as is shown at *c* in No. 3 by the shade within the circle representing the roller and marked *d*. In the threshold

I make a rabbet of about $\frac{3}{16}$ of an inch deep from the middle of the thickness of the door when closed to the out edge and then bevel it back about $\frac{1}{4}$ of an inch, in which the roller wedges itself when the door is closed thus perfectly excluding air and water that would drive under outside doors or French windows.

No. 3 is a longitudinal elevation of a portion of the door and the jamb with the door shut in the rabbet, and transverse section of the threshold; *e* shows the thickness of the door and the plate for suspending the roller as shown in it with its screw heads showing how they are fastened on; *g* is a section of the threshold showing how it is rabbetted and the way the roller shuts in. *f* is a part of the face of the jamb.

These sections and elevations are drawn at full size for common practice.

What I claim as my invention and desire to secure by Letters Patent is

The combination of a roller in a groove with the bottom of a door or window and a threshold with a rabbet in it; the said roller having play in its bearings, and the whole constructed and acting as described.

HIRAM C. BROWN.

Witnesses:

P. S. LAUMAN,
J. M. SMITH.