(No Model.)

D. BARTHOLOMEW.

THRESHOLD.

No. 322,086. Patented July 14, 1885.

Fig. 1.

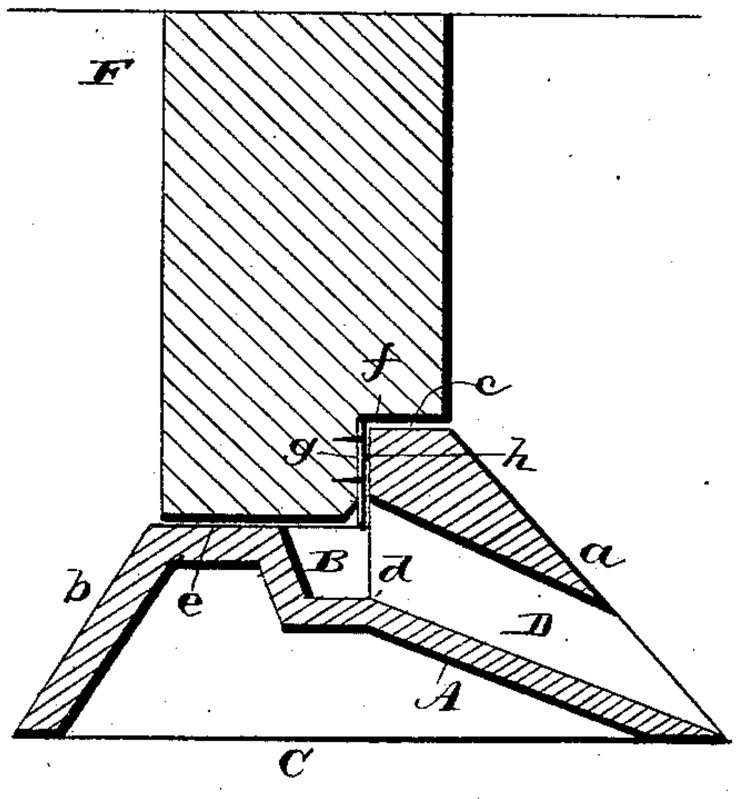


Fig. 2.

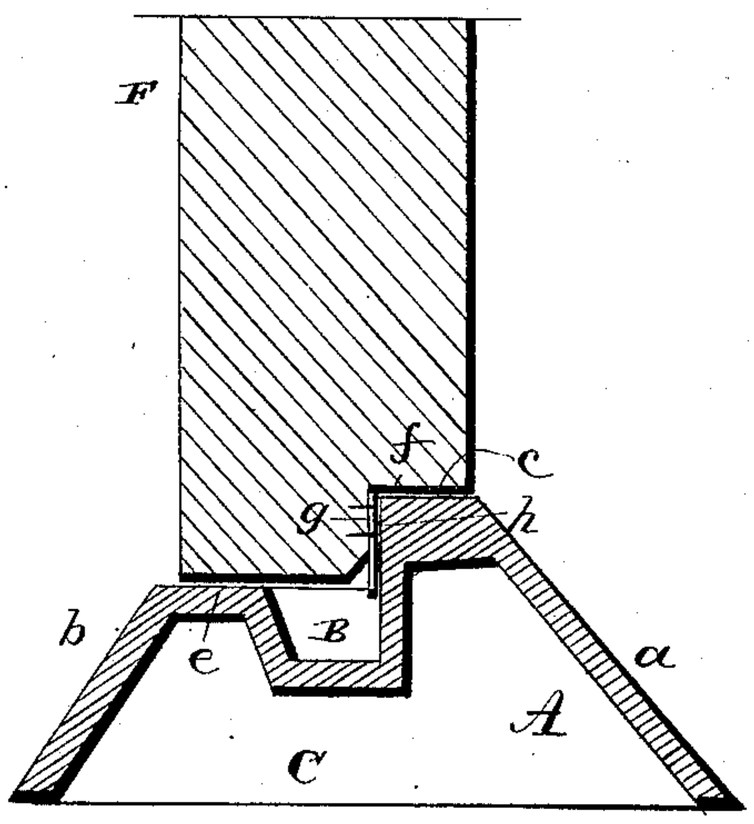
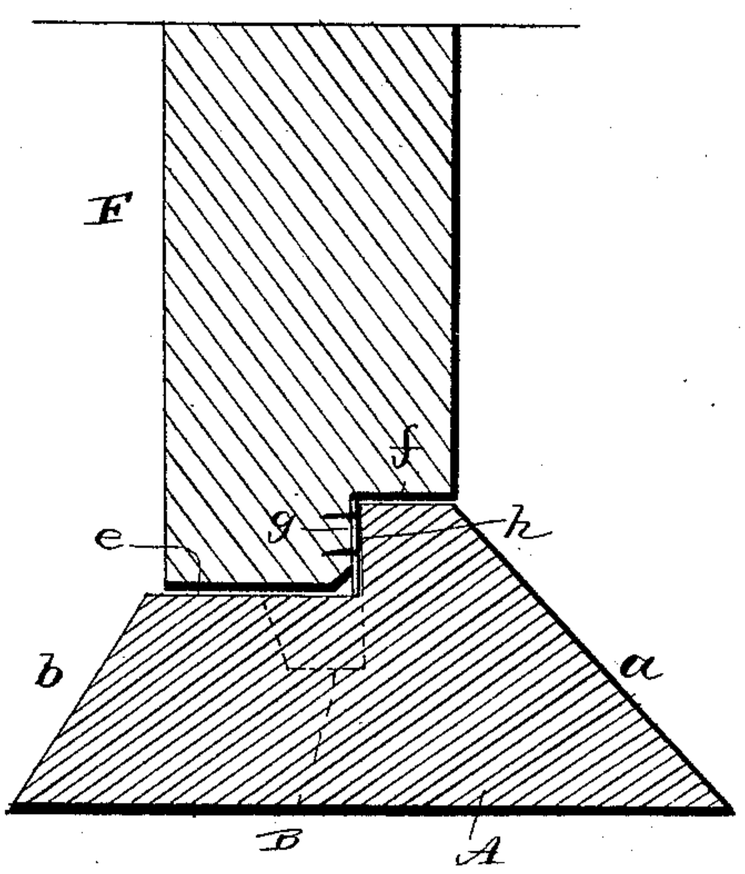


Fig. 3.



WITNESSES

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DANIEL BARTHOLOMEW, OF RED CLOUD, NEBRASKA.

THRESHOLD.

SPECIFICATION forming part of Letters Patent No. 322,086, dated July 14, 1885.

Application filed July 5, 1884. (No model.)

To all whom it may concern:

Be it known that I, DANIEL BARTHOLOMEW, of Red Cloud, in the county of Webster and State of Nebraska, have invented certain new and useful Improvements in Thresholds; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in thresholds, the object of the same being to provide a threshold which shall effectually exclude wind, rain, or moisture, and which may be conveniently adjusted to take up shrinkage in either door or sill; and with these ends in view my invention consists in certain features of construction and combinations of parts, as will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a cross-section of the threshold and lower portion of the door a short distance from either end. Fig. 2 is a cross-section at the central portion, and Fig. 3 is an end elevation.

A represents the threshold, preferably constructed of iron, although it might be constructed of other metal or of wood or of wood plated with iron. The outer and inner upper surfaces, *a* and *b*, of the threshold are formed inclining toward each other, the outer surface, *a*, extending higher than the inner, *b*. At the top of the incline *a* the threshold has a flat horizontal surface, *c*, from the inner edge of which the surface extends downward to a point, *d*, below the top of the inner incline, *b*, thence inwardly and upwardly to the flat surface *e* at the top of *b*, forming the elongated recess or trough B. The ends C of the threshold are constructed water-tight and close the ends of the trough B, and the outer portion of the threshold is provided with one or more spouts or water-conductors, D, leading from the trough B to the outer lower edge of the threshold.

The thickness of the material of which the threshold is constructed is no greater than the required strength demands, said material being cut away underneath to conform to the upper surface, excepting where the ends and spouts are formed. The threshold is preferably cast in a single piece and screwed to the floor or sill, suitable perforations being formed in its edges for that purpose.

The lower end of the door F is cut away on its outer edge, forming the shoulder *f*, which rests in close proximity to the surface *c*, while the lower end rests in close proximity to the surface *e*, and the vertical surface *g* of the cut-away portion rests in contact with the higher side of the trough B. The vertical surface *g*, however, is preferably provided with a strip of rubber, *h*, secured to the door, which, when the door is closed, presses against the higher side of the trough and forms a close joint.

From the above it will be seen that should any water be driven between the shoulder *f* and the surface *c* it would be met by the vertical surface of the rubber strip *h* and be turned downward, and if it should succeed in getting past the rubber it would be received into the trough B and would flow from thence to the ground or gutter through the spout D.

The threshold may be raised to close any shrinkage of the door by unscrewing it and placing a thin layer of wood or metal underneath, or may be set back to compensate for any twist or spring the door may have.

I am aware that it is not new to construct a threshold having a trough and spouts for leading the water out from the same, and that it is not new to place a rubber strip in a position to be compressed between the door and sill, and I do not claim the same, broadly; but,

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with a door having its lower outer edge cut away, of a threshold the upper surface of which is constructed to fit the cut-away portion of the door, the threshold being provided with a centrally-located longitudinally-extending trough, and a spout connecting the trough with the lower front of the threshold, substantially as set forth.

2. The combination, with a door having its lower outer edge cut away, forming an angular recess, of a threshold the front portion of which projects upward and fits into said angular recess, a rubber strip secured to one of the surfaces of the cut-away portion of the door, and a trough extending along the upper

central portion of the threshold, said trough being connected with the outer lower portion of the threshold, substantially as set forth.

3. The combination, with a door having the outer edge of its lower end cut away, and a rubber strip secured to one of the faces of the cut-away portion, of an iron threshold cast in one piece having a front upwardly-projecting portion adapted to fit the said cut-away portion of the door, a trough centrally located in the threshold, and a spout connecting the trough with the outer lower portion of the threshold, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

DANIEL BARTHOLOMEW.

Witnesses:

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L. L. TELTHAM.