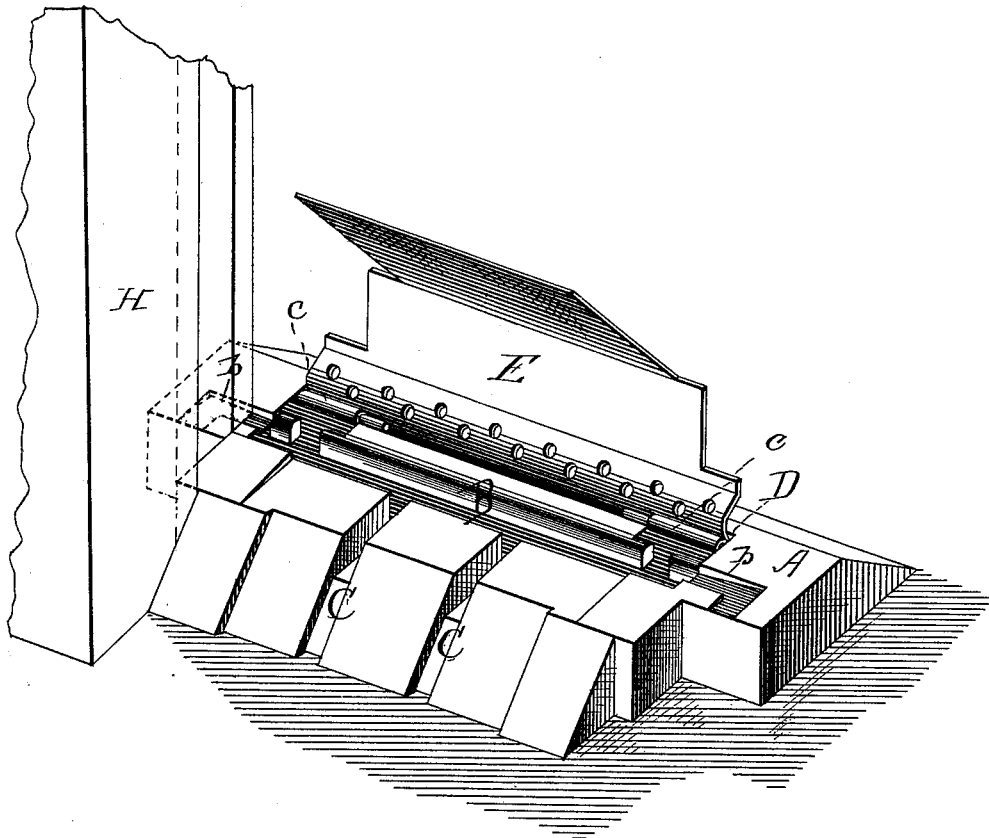


T. C. YORK.
Water-Proof Threshold.

No. 220,460.

Patented Oct. 7, 1879.



Witnesses:
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UNITED STATES PATENT OFFICE.

TOBIAS C. YORK, OF WAYNE COUNTY, IOWA.

IMPROVEMENT IN WATER-PROOF THRESHOLDS.

Specification forming part of Letters Patent No. **220,460**, dated October 7, 1879; application filed February 21, 1879.

To all whom it may concern:

Be it known that I, TOBIAS CLARKSON YORK, of Wayne county, and State of Iowa, have invented a new and useful Improvement in Water-Proof 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to water-proof thresholds; and the novelty consists in providing the threshold-strip with a longitudinal groove and recesses located under and a little beyond the lower inner edge or corner of the door when closed, with draining-passages or gooves leading therefrom, in combination with a channeled and perforated metallic cap journaled or pivoted within the recesses of the longitudinal groove so as to cover the groove and the draining-passages, and at the same time serve as a wearing-plate for the threshold, as will be hereinafter more fully set forth.

The letter A represents the threshold, made an inch or so wider than the ordinary threshold-strips, so as to give ample space for a longitudinal groove or chamber, B, formed therein, which is to be arranged to be entirely inside of the door when the door is shut, and to communicate with shallow channels extending about an inch each way past the width of the door. Leading from this groove or chamber are two or more drain-passages, C C, to the outer edge of the threshold, substantially as shown in the drawings.

In the part of the threshold which is inside the door is formed a longitudinal recess, D, of about the same length as the chamber B. Within this recess is journaled or hinged by one edge the metallic covering-plate E, and this plate, when journaled therein, is so constructed and arranged as to cover and protect all the passages and grooves in the threshold except the small end conductors *b*, and to be flush with the upper surface of the threshold.

In the drawings I have shown the metallic plate attached to the threshold-strip by the pintle-connections *c*.

The small passages *b* at the ends of the threshold are to collect any rain that may blow in and drip down on the edges of the doors or jambs, and conduct the same to the water-chamber B.

That portion of the metallic plate that lies directly over the groove or water-chamber B is troughed and perforated to receive whatever rain may be forced by the wind under the door, and permit the same to be emptied in the chamber below.

It is to be noticed that this strip with its rain-conduits is of such a width as to extend on each side of the door when the latter is shut, so as to receive the rain that falls upon the same, together with the drippings from the doors and jambs, and to receive any rain that is forced by wind under the door or comes through cracked panels, so that the same shall be conducted from said conduits by means of passages or drip-drains leading outwardly and to the exterior of the building; also, the metallic plate E, of the shape substantially as shown, may be made of heavy sheet iron or other suitable metal, or it may be cast in one piece, and so hinged to the threshold-strip as to be capable of being raised for cleaning the grooves and passages in the threshold when deemed necessary; also, this metallic plate extending downwardly protects the grooves and passages, and at the same time serves the purpose of a wearing-plate.

What I claim as new, and desire to secure by Letters Patent, is--

1. The threshold A, having the longitudinal chamber or groove B formed therein, as shown, and provided with the drain-passages C C, leading therefrom to the outside of the threshold, in combination with the troughed and perforated hinge-plate E, of such shape as to cover the said passages and grooves.

2. The water-proof threshold herein described, consisting of the threshold-strip A, having longitudinal groove B, drain-passages C C, end conductors *b b*, and the bent troughed and perforated covering-plate E, substantially as described.

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Witnesses:

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