

(No Model.)

E. SCHMIDT.
MOVABLE THRESHOLD.

No. 348,349.

Patented Aug. 31, 1886.

Fig. 1.

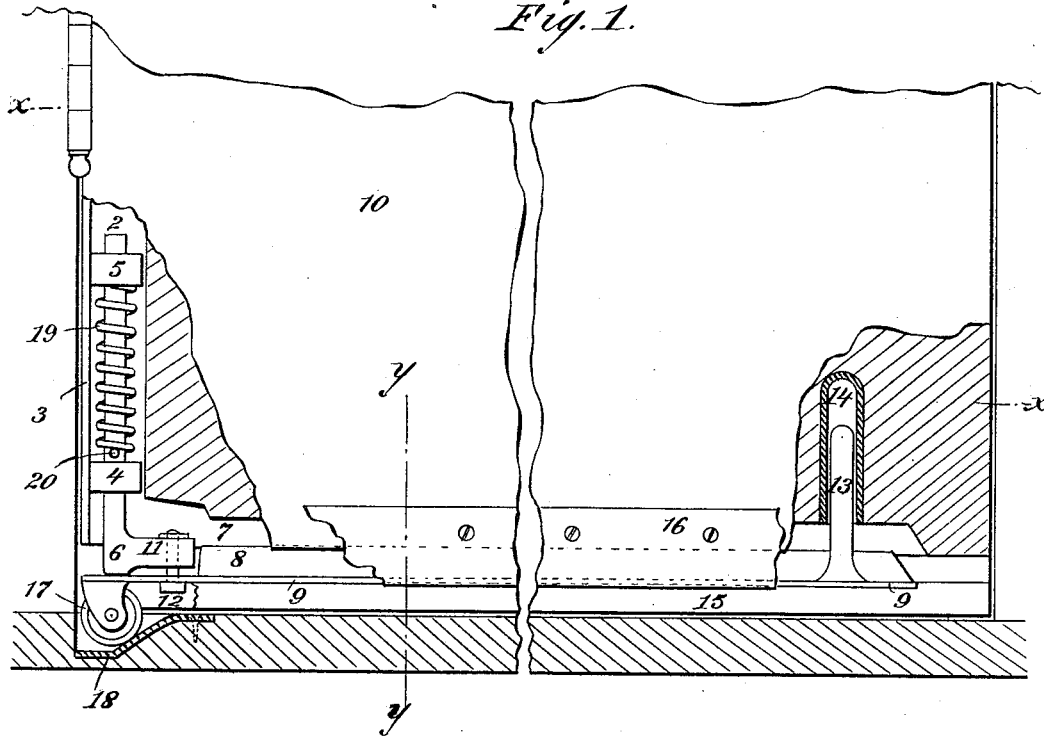


Fig. 2.

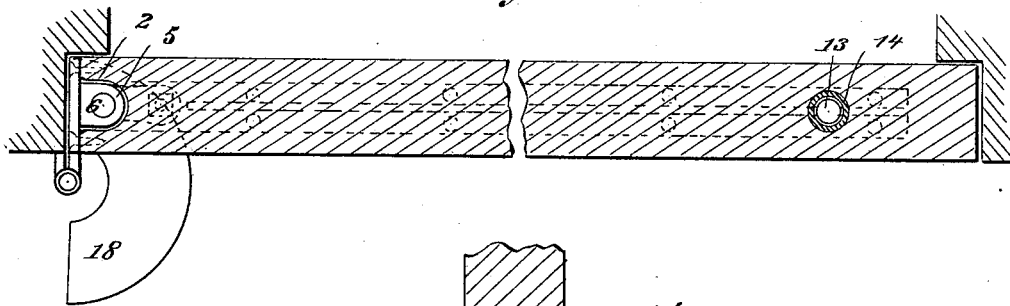
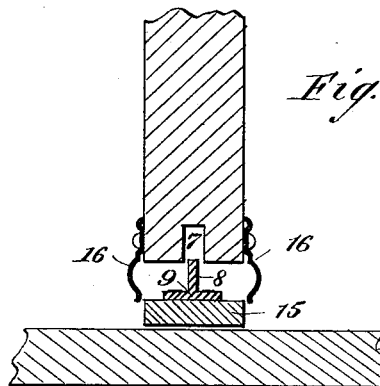


Fig. 3.



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MOVABLE THRESHOLD.

SPECIFICATION forming part of Letters Patent No. 348,349, dated August 31, 1886.

Application filed May 22, 1886. Serial No. 202,942. (No model.)

To all whom it may concern:

Be it known that I, EUGENE SCHMIDT, of Stillwater, in the county of Washington and State of Minnesota, have invented a new and

Improved Movable Threshold, of which the following is a full, clear, and exact description.

My invention relates to the construction of a threshold arranged to be carried by and applicable for use in connection with any door, the object of the invention being to do away with the permanently-mounted thresholds in common use, thereby leaving the floor level beneath the lower edge of the door.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the figures.

Figure 1 is a side view of the lower portion of a door provided with my improved form of movable threshold, certain portions of the door being broken away in order to disclose the construction of the parts. Fig. 2 is a sectional plan view taken on the line *x x* of Fig. 1, and Fig. 3 is a vertical sectional view taken on line *y y* of Fig. 1.

In arranging such a threshold as the one forming the subject-matter of this application, I form a recess, 2, in the rear edge of the door 10, and to the rear edge of the door I secure a plate, 3, that is formed with two inwardly-projecting lugs, 4 and 5, each lug being formed with a central aperture to receive the shank of an angle-iron, 6. Along the bottom edge of the door there is a groove, 7, arranged to receive the vertical flange 8 of an inverted-T iron, 9, that is rigidly secured to the horizontal arm 11 of the angle-iron 6, connection between the parts being established by means of a bolt or screw, 12. Upon the forward end of the T-iron 9 there is arranged a vertical post or standard, 13, which enters a socket, 14, arranged as best shown in Fig. 1. To the under side of the iron 9 I secure a strip, 15, which constitutes the threshold of the door, the space between the lower edge of the door and the upper face of the threshold 15 being covered by molded metallic strips 16, that are

secured to each face of the door, as clearly shown in Figs. 1 and 3.

Directly beneath the angle-iron 6 there is arranged a roller, 17, which rides upon a cam-plate, 18, that is countersunk in the floor.

Although not absolutely necessary, I greatly prefer to provide a spring, 19, which will act to force the threshold 15 to the position in which it is shown in Fig. 1, said spring being coiled about the vertical shank of the angle-iron 6, arranged to abut against the under side of the lug or projection 5 and bear upon a pin or stop, 20, that is carried by the vertical shank of the angle-iron 6.

Such being the general construction and arrangement of my improved form of threshold, it will be seen that as the door is swung open the roller 17 will ride up the inclined face of the cam 18, and will thus slightly raise or elevate the threshold 15, so that it will swing clear of the floor.

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

1. As a new article of manufacture, a threshold designed for attachment to the door, consisting of a plate provided with guiding-lugs, an angle-iron, the shank of which is fitted within said lugs, a T-iron to which the threshold proper is secured that is united to the horizontal arm of the angle-iron named, a roller being mounted upon the under side of the T-iron, and a cam-plate, all parts being designed for arrangement substantially in the manner described.

2. The combination, with a door, of a plate, 3, formed with lugs 4 and 5, an angle-iron, 6, the shank of which is mounted in apertures formed in said lugs, a threshold connected to the horizontal arm of said angle-iron, a roller, 17, and a cam-plate, 18, substantially as described.

3. The combination, with a door, of the following elements: a plate, 3, provided with apertured lugs, an angle-iron, 6, to which there is secured a T-iron, 9, said angle-iron being mounted so that its shank rests within the

apertures of the lugs formed upon the plate 3, a roller, 17, carried by the angle-iron 9, a cam-plate, a threshold, 15, secured to the angle-iron 9, and shields 16, substantially as described.

5 4. The combination, with a door, of an inverted-T iron, 9, provided with a standard, 13, that is arranged to enter a recess formed in the door, an angle-iron, 6, to which the T-

iron is secured, a plate, 3, fixed to the rear edge of the door and provided with apertured lugs 4 and 5, in which the shank of the angle-iron rests, a roller, 17, and a cam-plate, 18, substantially as described.

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Witnesses:

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