Hitchcock & Trout.

Door Sill.

No. 95,799. Patented Oct. 12, 1869.

Fig. 1.

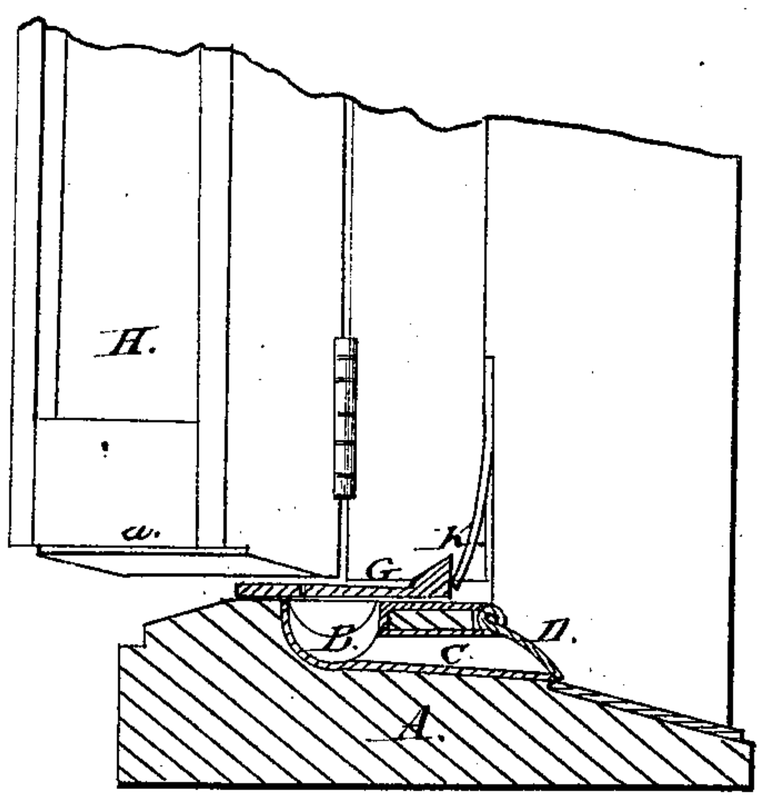
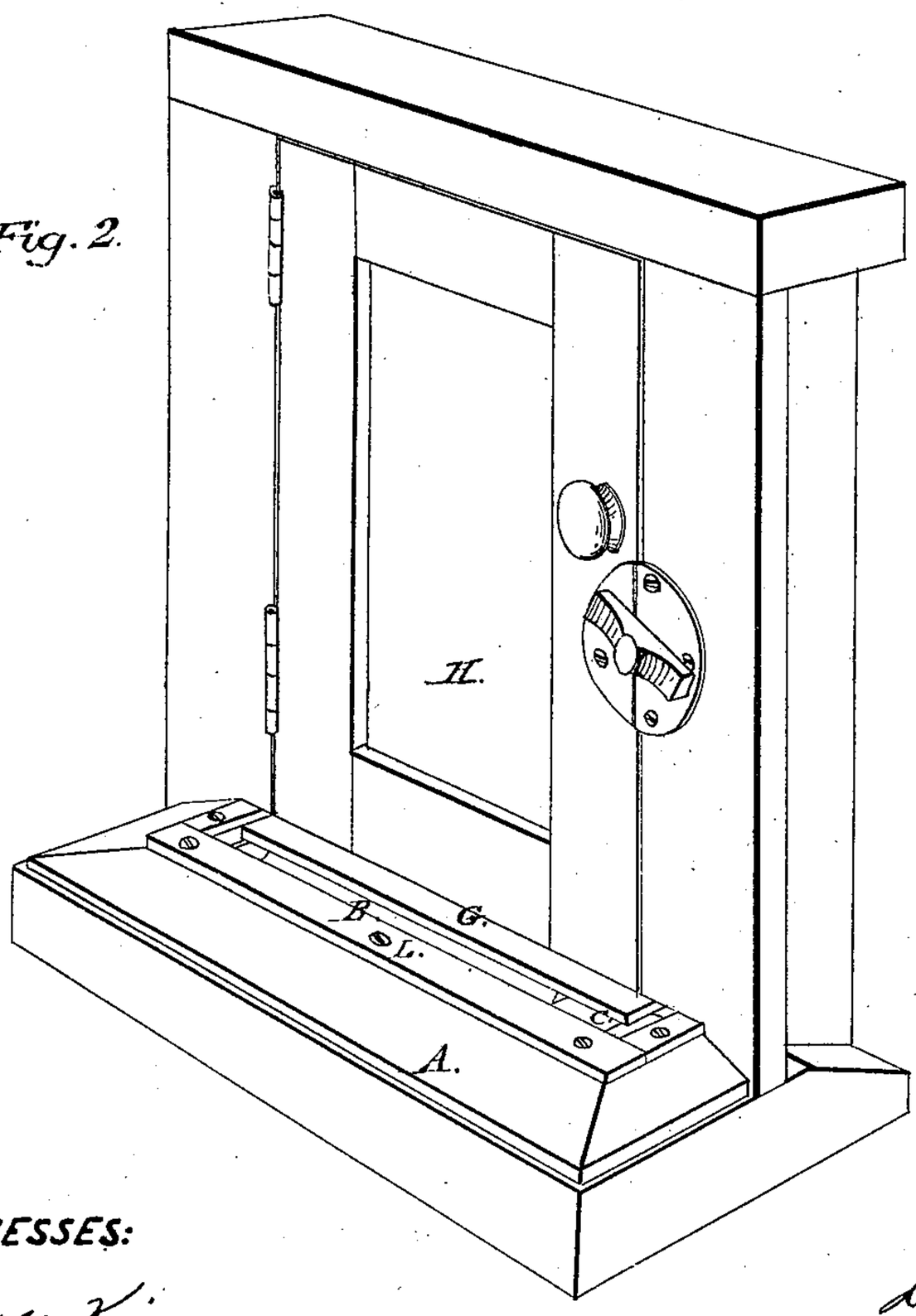


Fig. 2.



WITNESSES:

Harry King
J. Lehmann.

INVENTOR:

D. S. Trout
by D. Hitchcock
Alexander Mason
Attorney.

United States Patent Office.

D. HITCHCOCK AND D. S. TROUT, OF ARCOLA, ILLINOIS.

Letters Patent No. 95,799, *dated October* 12, 1869.

IMPROVED DOOR-SILL.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that we, D. HITCHCOCK, and D. S. TROUT, of Arcola, in the county of Douglas, and in the State of Illinois, have invented certain new and usefull Improvements in Door-Sills; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of our invention consists in the construction of an air and water-tight door-sill, and the arrangement of the devices hereafter set forth and described.

Figure 1 is a vertical section view of our invention.

Figure 2 is a perspective of the same, taken from the inside of the door.

Letter A represents the door-sill, which has an opening or gutter, B, made in its top, just inside of the door, so as to catch the water which may beat in under the door.

This gutter is lined with metal, or some waterproof substance, so as to prevent the water from injuring the wood, and has a small channel, C, leading outside of the door, so as to lead the water off.

Over the mouth of this channel there is pivoted a door, D, weighted on its under side, so as to keep it closed, in order to prevent the air from blowing through into the house.

Over the top of the gutter there is placed a flat metal plate or slide, G, which is moved back and forth at the opening and closing of the door H, so as to cover and uncover the gutter. Upon the outer edge of the slide there is placed a bead, slanting downward toward the inside, against which the bottom of the door strikes, and thus moves the slide forward at the closing of the door.

Secured to the sides of the door-frame, there are two springs, K, one end of which bears against the edge of the slide, and moves it back into place as soon as the pressure from the door is removed.

The bottom edge of the door is slightly bevelled, so as to fit on the top of the bead, and has a small slot or rabbet, *a*, cut on the outside edge, so as to extend over the slide, and thus serves to make the sill more secure against both wind and water.

While the door is closed, the slide is pressed forward, so that the top of the gutter is open, (as seen in fig. 2,) so that in case water should succeed in finding its way through, it will at once run into the gutter, and then pass off through the channel C.

Around the upper rim of the gutter, there is placed a metal frame, L, raised above the floor sufficiently to be flush with the top of the slide, and acts as a protection to it. In case the door should warp or shrink, the springs will adjust themselves to it in any position it may assume.

Having thus described our invention,

What we claim as new, and desire to secure by Letters Patent, is—

1. The arrangement of the frame L and sliding cover G, over the gutter B, said gutter being provided with a channel, C, having the weighted door D, all substantially as shown and described.

2. The sliding cover G, in combination with the springs K K and rabbet *a* on the door H, all constructed and arranged to operate substantially in the manner and for the purposes herein set forth.

In testimony that we claim the foregoing, we have hereunto set our hands, this 11th day of June, 1869.

D. HITCHCOCK.
D. S. TROUT.

Witnesses:
THOMAS TOD,
C. L. EVERT.