

(No Model.)

S. E. HAYES.

DOOR SILL.

No. 344,963.

Patented July 6, 1886.

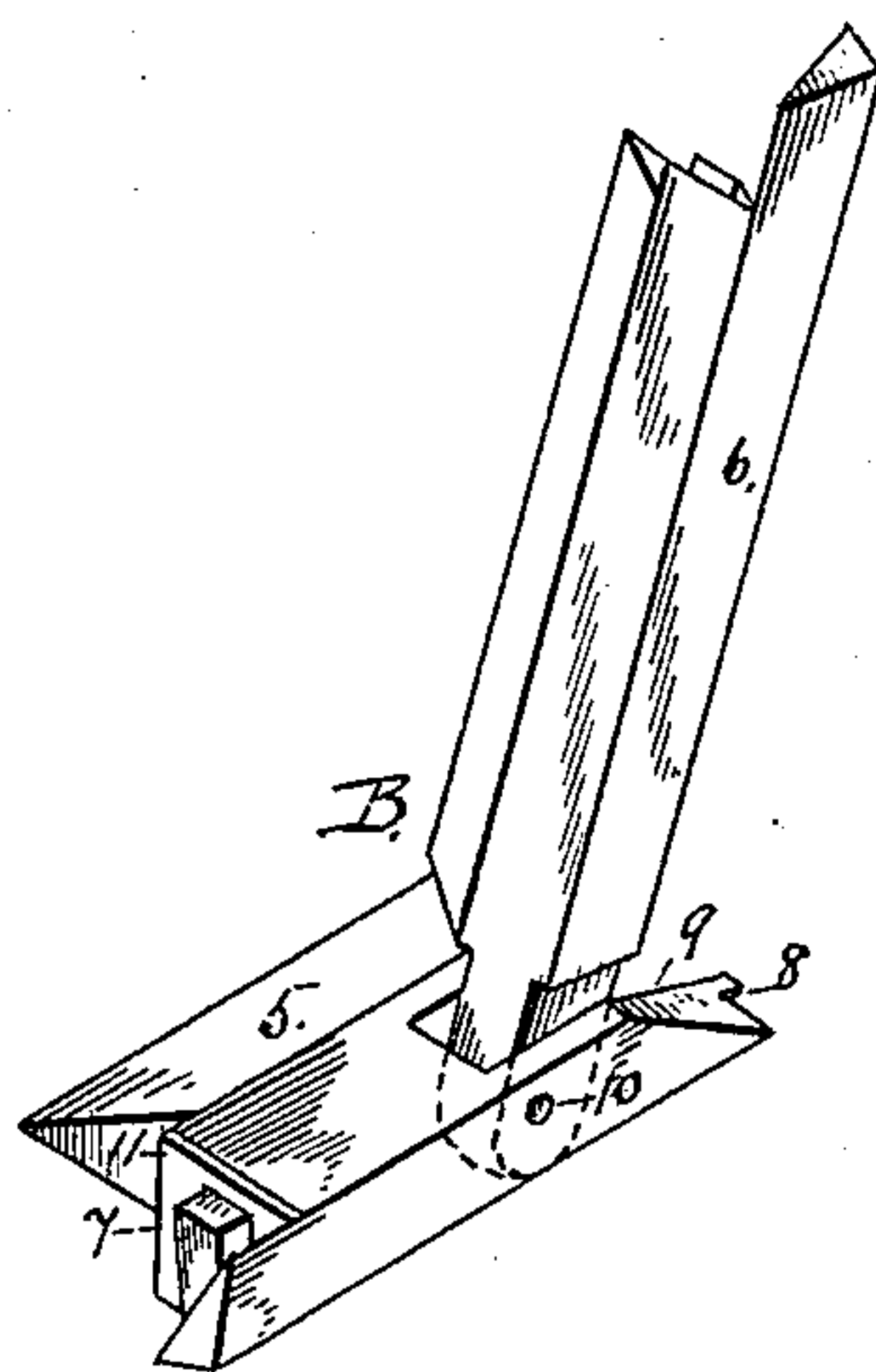
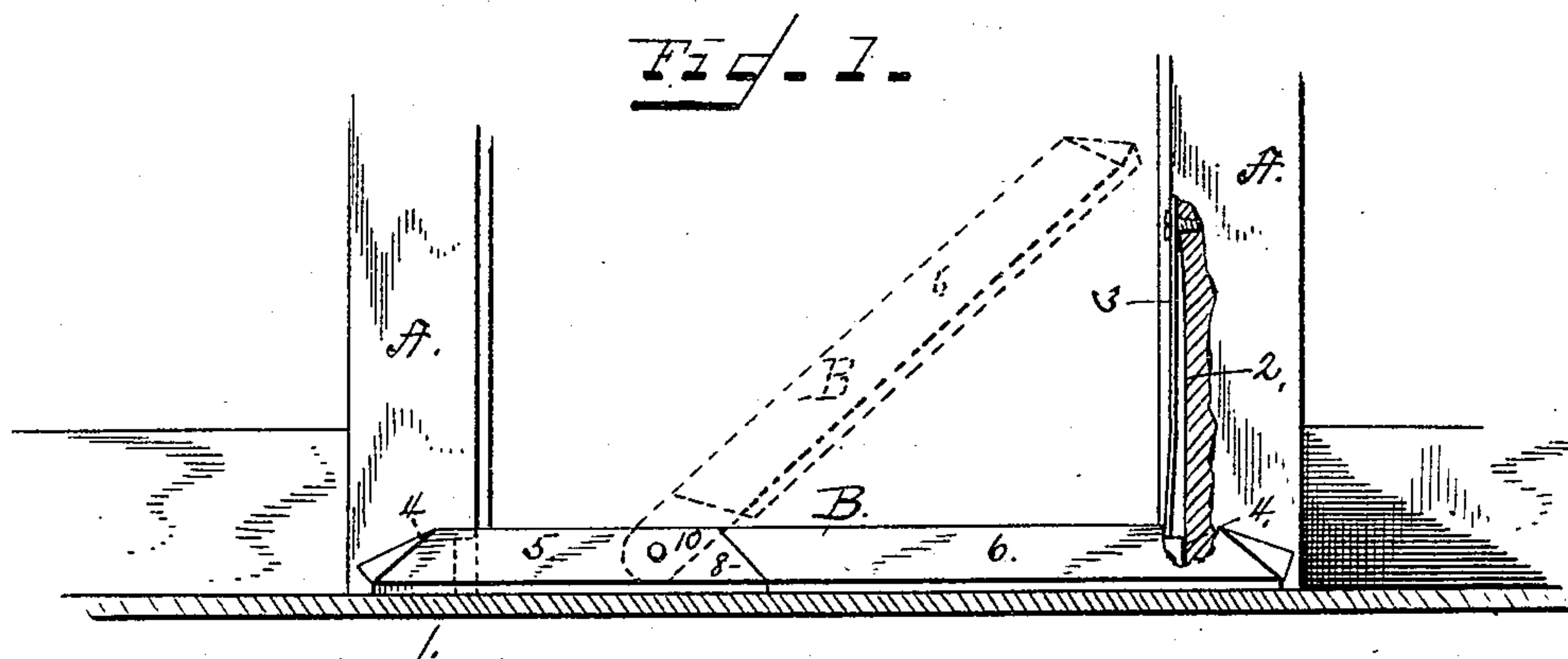


Fig. 3.

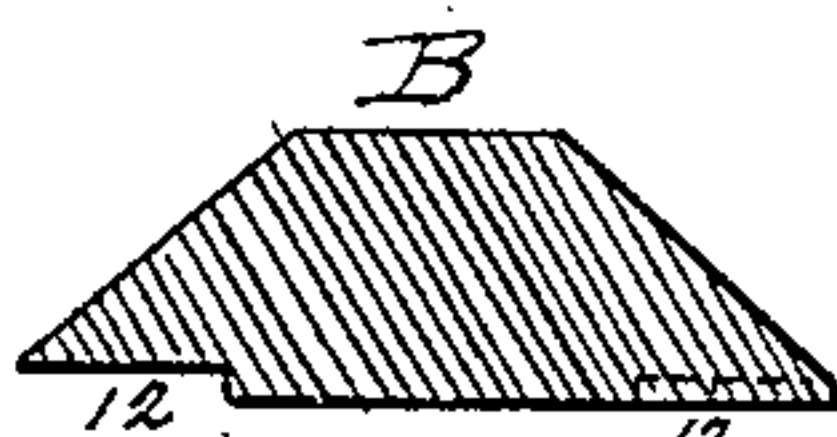
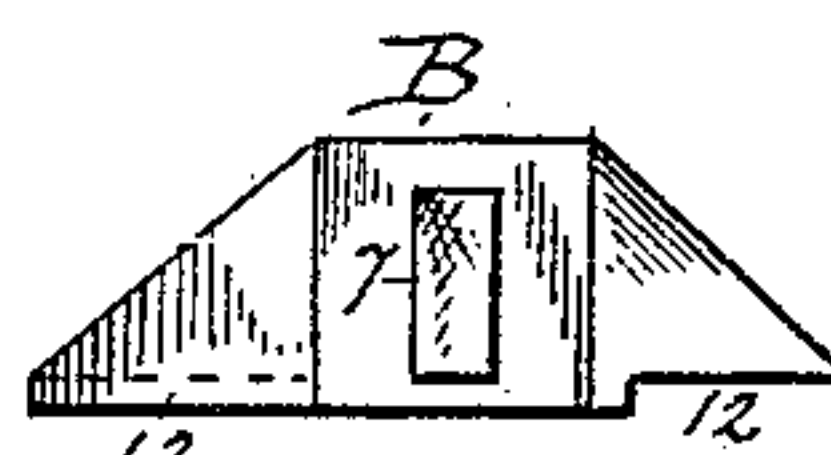


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

SENEE E. HAYES, OF LUTHERSBURG, PENNSYLVANIA.

DOOR-SILL.

SPECIFICATION forming part of Letters Patent No. 344,963, dated July 6, 1886.

Application filed April 16, 1886. Serial No. 199,107. (No model.)

To all whom it may concern:

Be it known that I, SENE E. HAYES, a citizen of the United States of America, residing at Luthersburg, in the county of Clearfield and State of Pennsylvania, have invented a new and useful Door-Sill, of which the following is a specification.

My invention has relation to improvements in detachable door-sills; and the objects are, first, to provide a door-sill which may be readily detached and replaced; second, to provide a door-sill under which the carpet or matting is placed and retained.

Hereinafter my improved door-sill is fully described, the novelty being specifically designated in the claims made hereto, and in the accompanying drawings, forming a part of this specification, the device is fully illustrated.

Reference being had to the drawings, Figure 1 is a front view, in elevation, of a door-frame with my improved sill applied, the dotted lines showing the position preliminary to final setting, and the side of the door-frame being broken away to show the holding-spring. Fig. 2 is a perspective of the sill, showing one limb lifted. Fig. 3 is a transverse section, and Fig. 4 is a view of the end supplied with packing.

The letter A designates the door-frame, of the usual general construction, excepting that the lower frame-piece, 1, is always left plain on the upper surface, in order that the detachable plate or carpet-sill shall lie evenly thereon when fitted in position. In one of the side pieces of the frame is formed a seat, 2, in which is secured a plate-spring, 3, the free end of which is arranged to bear slightly outward and to set on the face of the plate-sill and keep it in position. At the base of the side pieces of the frame, in their inner face, are formed mortises 4, in which are disposed the tenons formed on the ends of the plate-sill, as hereinafter stated.

The letter B designates my improved plate-sill, composed of two limbs or parts, 5 6, jointed together. The part 5 has its end formed in cross-section to set in the forms of the rabbets or moldings of the inner face of the frame of the door, and has a tenon, 7, to set in the mortise at the base of the frame. This part 5 is the shorter of the two limbs,

and has its outer end cut inclined or chamfered, as at 8, and an open-end slot, 9, formed in it to receive the tongue of the reversely chamfered or inclined end of the longer part, 6. The parts are jointed and held together by a pivot-pin, 10, and the free end of the part 6 corresponds in cross-section shape to the form of the rabbet of the door, same as the other end, excepting that the wall of the end is slightly inclined from the top inwardly, as shown, in order that the plate may be pressed down to horizontality and raised up easily and without damage to the face of the frame or to the end of the plate-sill. About the tenon of the part 5 is placed a rubber packing, 11, which is extended over the face of the central section of the plate-sill, and serves as a means for setting the sill snugly in its horizontal position. On one or both sides of the under surface is formed a rabbet, 12, which sets over the carpet or matting, and thus permits a straight edge to be given to the lay of the carpet, where under ordinary lay the carpet is puckered and presents an uneven appearance. If the edge of the sill projects on but one side of the door, then but one rabbet is made for the carpet; but if both sides project, then a rabbet is formed on each side.

The sill may be made of wood, or wood plated with metal sheeting, or may be made of light metal casting or sheet metal struck into proper shape. It is preferably inserted in its place with the short part on the hinge side of the frame, and its long part set in the latch side of the frame.

It will be seen from the foregoing that the sill may be readily removed and as easily replaced. It may be taken wholly out when sweeping, if desired, or the longer portion may be raised up and the threshold swept over, and when laying carpets may be removed until the carpet is laid, and then replaced.

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

1. The combination, with a door-frame formed with mortises in the inner faces at the base, of a detachable plate-sill composed of two pieces pivotally jointed together, and formed with tenons on the outer ends to set in the mortises of the door-frame, substantially as described.

2. The combination, with a door-frame

formed with mortises in the inner faces at the bases, of a detachable plate-sill composed of two pieces pivotally jointed together, and formed with tenons set in the mortises of the door-frame, and a retaining-spring fixed in the door-frame, with its free end adapted to hold the end of the sill down, substantially as described.

3. The combination, with a door-frame formed with mortises in the inner faces at the bases, of a detachable plate-sill composed of two pieces pivotally jointed together, and formed with tenons to set in the mortises of the door-frame, an elastic packing interposed between one end of the sill and the door-frame, and a retaining-spring fixed to the door-frame, with its free end to set on the end of the sill, substantially as described.

4. The combination, with a door-frame formed with mortises in the inner faces at the bases, of a detachable plate-sill composed of two pieces pivotally jointed together, and formed with tenons to set in the mortises of the door-frame, and having a rabbet in the under face to set over the edge of the carpet, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two attesting witnesses.

SENES E. HAYES.

Attest:

JAMES T. HEBEL,
JOS. W. BROCKBANK.