

No. 881,361.

PATENTED MAR. 10, 1908.

W. VAN HORN.
WEATHER STRIP.
APPLICATION FILED MAY 10, 1907.

Fig. 1.

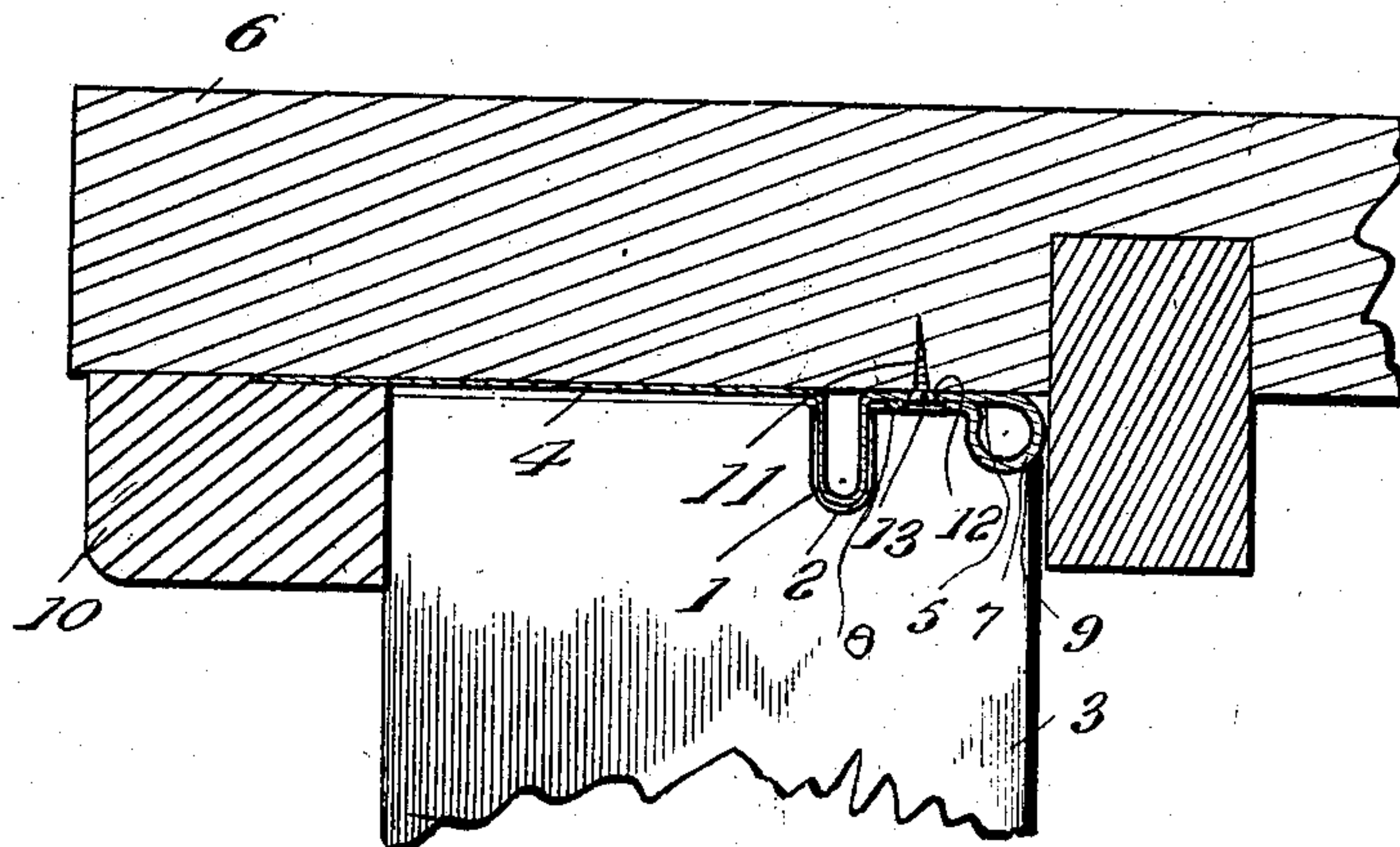


Fig. 2.

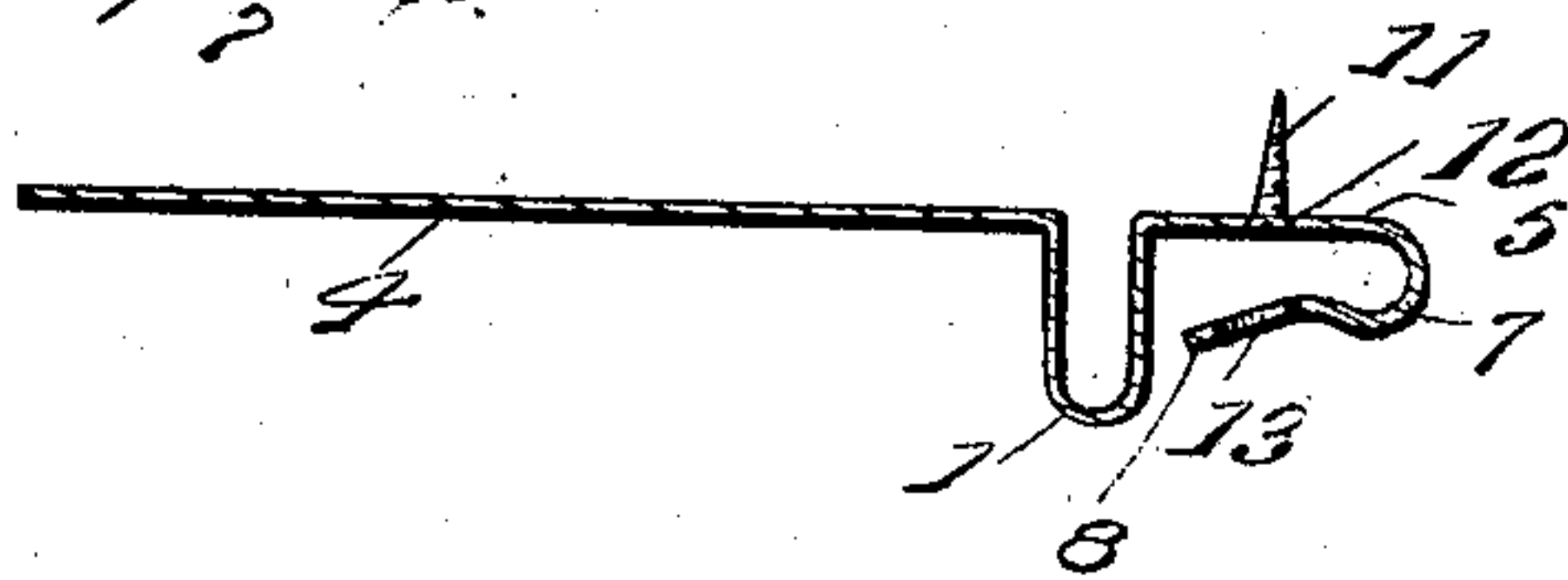
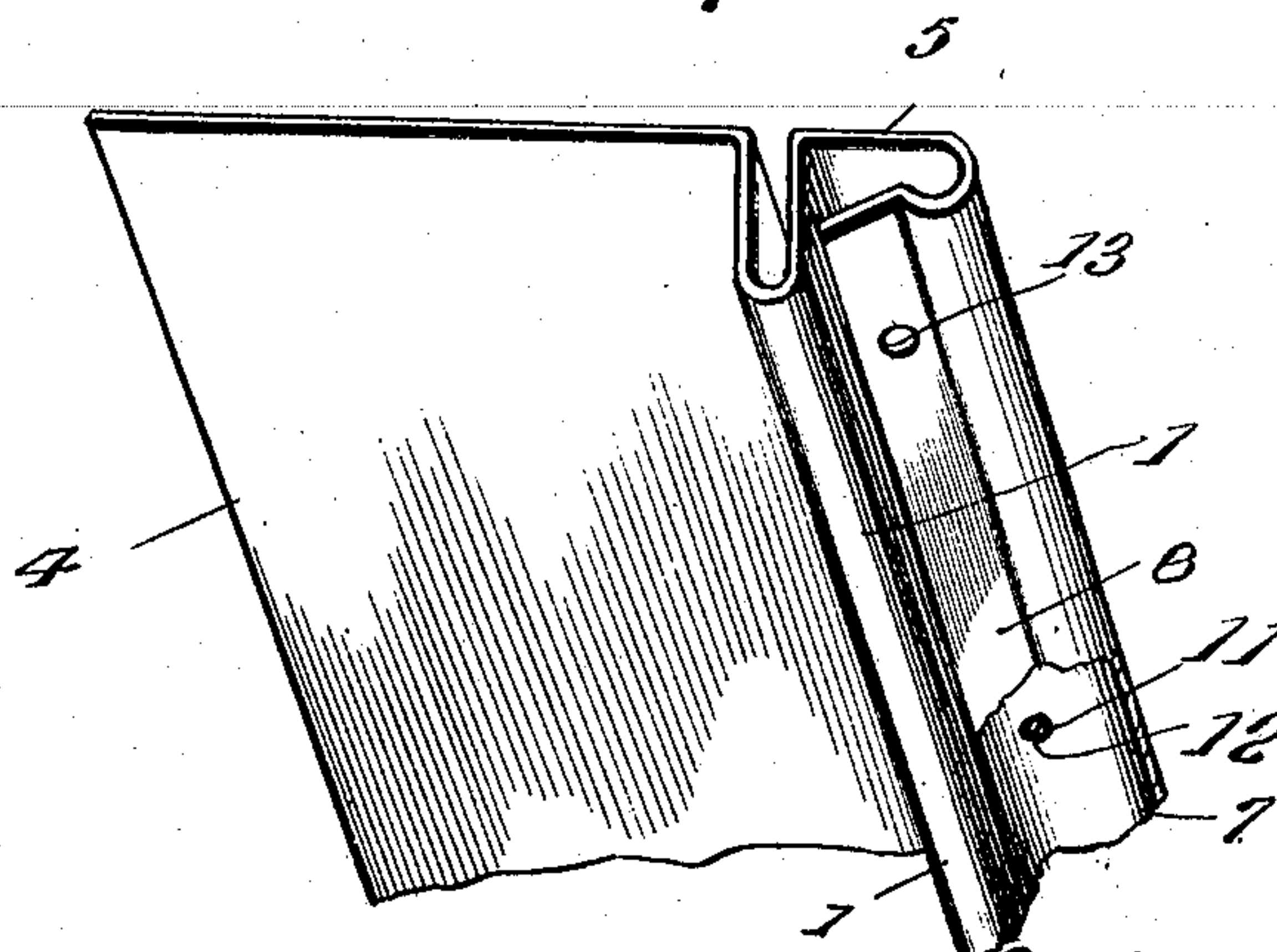


Fig. 3.



Witnesses

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WEATHER-STRIP.

No. 881,361.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILLIAM VAN HORN, citizen of the United States, residing at Piqua, in the county of Miami and State of Ohio, have invented certain new and useful Improvements in Weather-Strips, of which the following is a specification.

This invention, in common with like structures, has for its object to exclude the weather and to prevent the rattling of sash and like slidably mounted closures.

The protecting means is of novel formation and comprises a guide, a spring leaf and a spring bead, said parts being of integral formation with the strip from which the article is formed, a longitudinal edge portion of the strip being bent substantially as herein disclosed to provide said parts.

In the accompanying drawings forming a part of the specification: Figure 1 is a sectional view of a portion of a window frame or casing and the sash mounted to slide therein, showing the application of the invention. Fig. 2 is a cross section of the weather strip. Fig. 3 is a detail perspective view of a portion of the weather strip.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The weather strip is formed of sheet metal and may be of different sizes both with respect to length and width. The metal strip is doubled or folded upon itself at a point between its longitudinal edges to provide an off-standing rib 1, the side walls or members of which are spaced apart. The rib 1 is preferably hollow to admit of its side walls yielding slightly so as to maintain a close joint between them and the walls of the groove 2 provided in an edge of the stile 3 to receive the rib 1. The base portions 4 and 5 of the strip upon opposite sides of the rib 1 are in the same plane so as to lie snugly against the inner face of the jamb or casing 6. A spring bead 7 is provided at one edge of the strip by bending a longitudinal edge portion thereof and a leaf or wing 8 extends inward from the free edge of the bead and normally stands away from the base 5. The leaf or wing 8 is of a width to fit snugly between the rib 1 and the spring bead 7 when

repressed so as to lie against the base 5, as indicated in Fig. 1. A rabbet 9 is formed in the corner of a stile 3 to receive the spring bead 7. The edge portion of the strip opposite to that provided with the spring bead is confined by means of the window stop 10, which overlaps the same, as indicated in Fig. 1.

Nails or like fastenings 11 secure the base portion 5 of the weather strip and pass through openings 12 therein, said openings being in register with corresponding openings 13 formed in the spring leaf or wing 8. The openings 13 are larger than the openings 12 to admit of the heads of the fastenings 11 passing readily therethrough. The weather strip may be provided in varying lengths and sizes and is adapted to be secured to the jambs of the window frame or like casing opposite to the run-ways provided for the sliding sash or like closure. The edges of the stiles of the sash or like part, are formed with grooves 2 and rabbets 9 corresponding to the ribs 1 and spring beads 7 of the weather strip.

In the event of the sash fitting snugly between the jambs of the window frame, the spring leaves 8 will be repressed and the spring beads correspondingly contracted, but should the sash fit loose, the leaves or wings 8 will spring outward from the base portions 5 and the spring beads 7 correspondingly expand, thereby insuring a close fit between the sash and the jambs to the exclusion of wind and rain and obviating rattling of the sash in windy weather.

Having thus described the invention, what is claimed as new is:

1. A weather strip having a portion between its longitudinal edges doubled or folded to provide a rib and having an edge portion bent to provide a spring bead and a spring leaf, the latter adapted to occupy the space between the spring bead and the said rib.

2. In a window frame and sash, the combination of the sash or like part having a groove and a rabbet, a weather strip formed of sheet metal having a portion between its edges doubled or folded to provide a rib to enter the groove in the edge of the sash and having an edge portion bent to provide a spring bead to enter the rabbet in the edge of the sash, and having a spring leaf projected

from the free edge of the bead and normally standing away from the base portion of the strip, the spring leaf and the opposite base portion of the strip having corresponding
5 openings to receive fastenings, the openings in the spring leaf being larger than the openings in the base portions to permit the heads of the fastenings to pass freely therethrough,

the opposite edge portion of the strip being confined by a window stop.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM VAN HORN. [L. s.]

Witnesses:

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