H. GOLLINGS.

WEATHER-STRIP.

No. 193,602. Patented July 31, 1877.

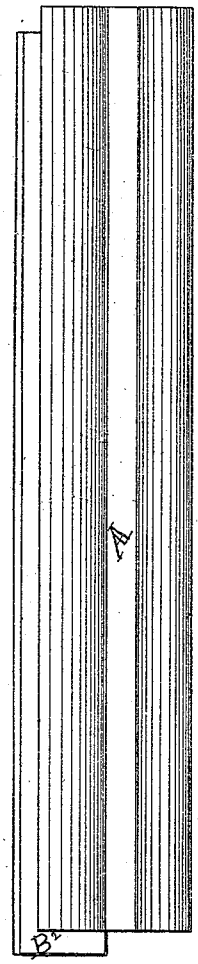


Fig. 1

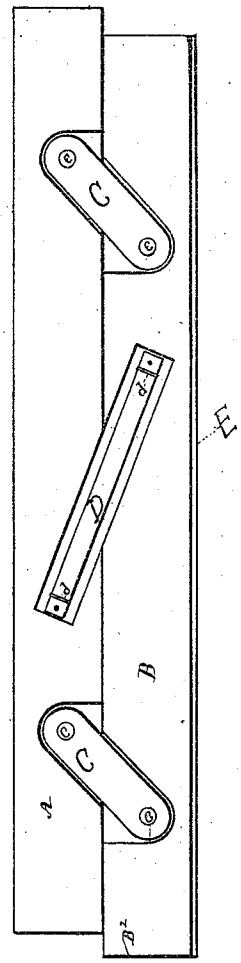


Fig. 2

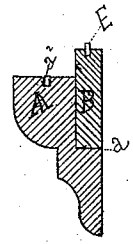


Fig. 3

Witnesses

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UNITED STATES PATENT OFFICE.

HENRY GOLLINGS, OF PITTSBURG, PENNSYLVANIA.

IMPROVEMENT IN WEATHER-STRIPS.

Specification forming part of Letters Patent No. **193,602**, dated July 31, 1877; application filed June 29, 1876.

To all whom it may concern:

Be it known that I, HENRY GOLLINGS, of Pittsburg, Pennsylvania, have invented a new and useful Improvement in Automatic Air and Dirt Strips for Doors, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing.

Similar letters of reference indicate corresponding parts.

The object of my invention is to provide an automatic air and water-strip for doors of dwellings or other buildings, to be attached to the bottom of the door, and which becomes adjusted to its proper position on the closing of the door.

In the accompanying drawings, Figure 1 represents a section of a water strip with my air-strip attached. Fig. 2 represents the reverse side of Fig. 1, and Fig. 3 a section of the same cut laterally.

A is a water-strip; B, an air-strip. C C are swivels; D, an elastic rubber strip. *c c c c* are bolts. *d d* are staples; E, a cloth strip. *a* is the shoulder of the water-strip A; a^2, groove in water-strip A. B^2 is the adjustable end of the strip B.

The air-strip B is made of ordinary wood, of the required length, width, and thickness, on one edge of which is a groove running lengthwise of the same, which groove is of a uniform depth and size. In this groove I insert a strip of cloth, rubber, or other suitable material, extending below the edge of the strip B the required distance, and secure it therein in the ordinary way. The strip B is then attached to an ordinary piece of molding, A, by means of the swivels C C, and to this end I use bolts *c c c c*. The strip B, when thus secured, will rest against the shoulder *a* when the door is open. The rubber strip is secured to the piece A and strip B by means of the staples *d d*, or this may be done in any other usual way. The strip D is attached to the strips B and A a little to one side of their respective centers, as shown in the drawing; but this is not essential, as the attachment may be made on any part of the strip, provided it be made diagonally across from the one to the other.

By changing the direction of the strip D, the device may be made to suit doors opening to the right or to the left.

The water-strip A, when attached to the door, is adjusted so as to allow the strip E to rest closely on the door-sill, thus keeping out all air, dirt, &c.

When the door is closed, the air-strip B will be close down on the door-sill, and when the door is open, the action of the rubber D, which was in a state of tension before, will draw the strip B back and in place, as shown in Fig. 2. The door being open, on shutting the same the end B^2 of the strip B will strike against the door-frame, and as the door closes the strip B will be pushed longitudinally, by reason of the end resting against the door-frame, and at the same time, by operation of the swivels C C, the strip B is forced downward and against the door-sill. In this position it is held till the door is again opened, when the rubber D will bring back the strip B to the position as shown in Fig. 2.

The swivels C C and rubber strip D are so embedded in the strips B and A as to work freely when fixed to the door.

In the water-strip A, and along its under edge, I form the groove a^2, as seen in Fig. 3, the object of which is to stop the flow of water along the under edge of the strip A.

Having thus described my invention, what I claim is—

The elastic gum spring D, in combination with the swivels C C, air-strip B, and water-strip A, provided with groove a^2, all combined and arranged as described, and for the purposes set forth.

HENRY GOLLINGS.

Witnesses:

JOHN H. STEVENSON,

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