

J. CLEAVE.
WEATHER-STRIP.

No. 169,420.

Patented Nov. 2, 1875.

Fig. 1.

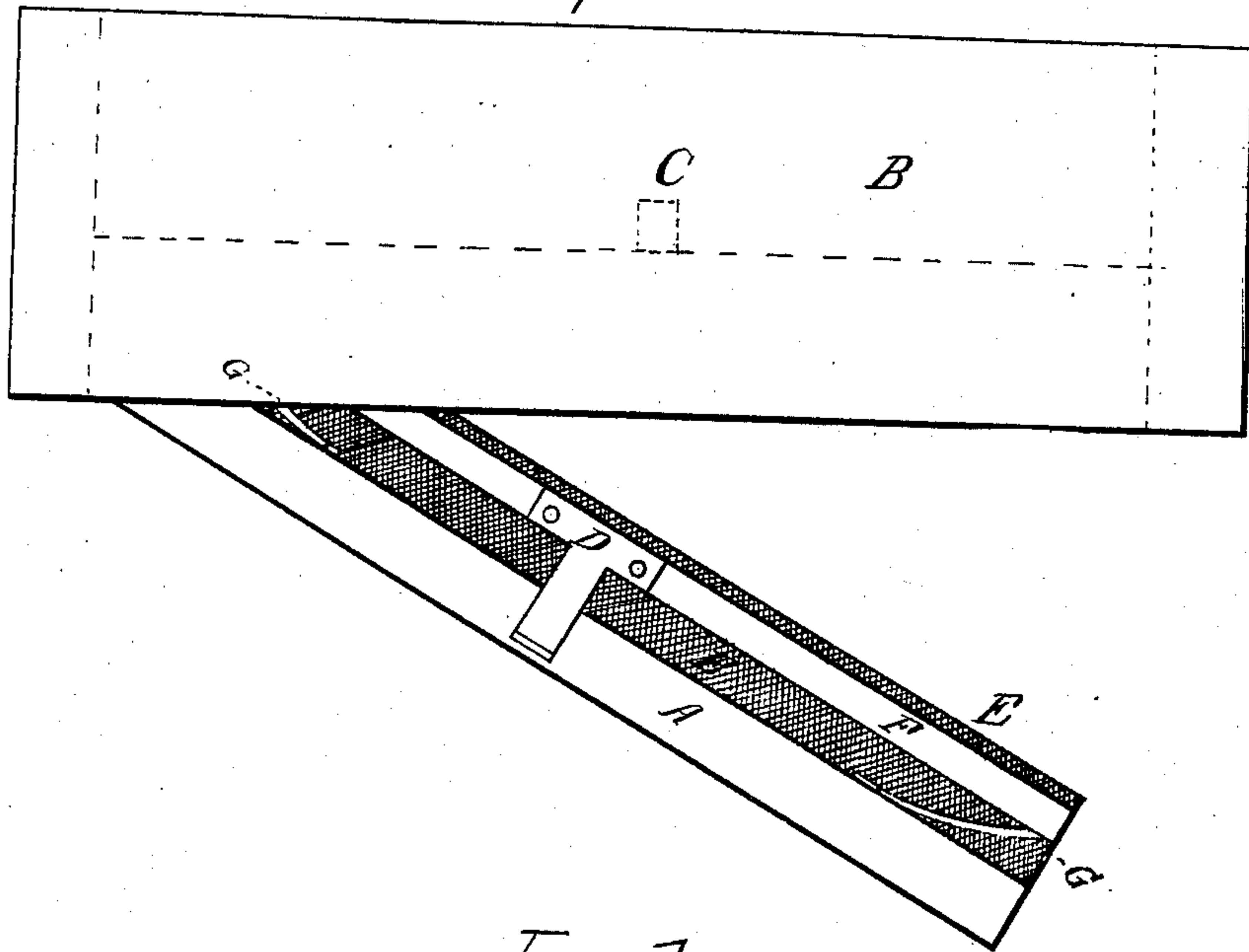
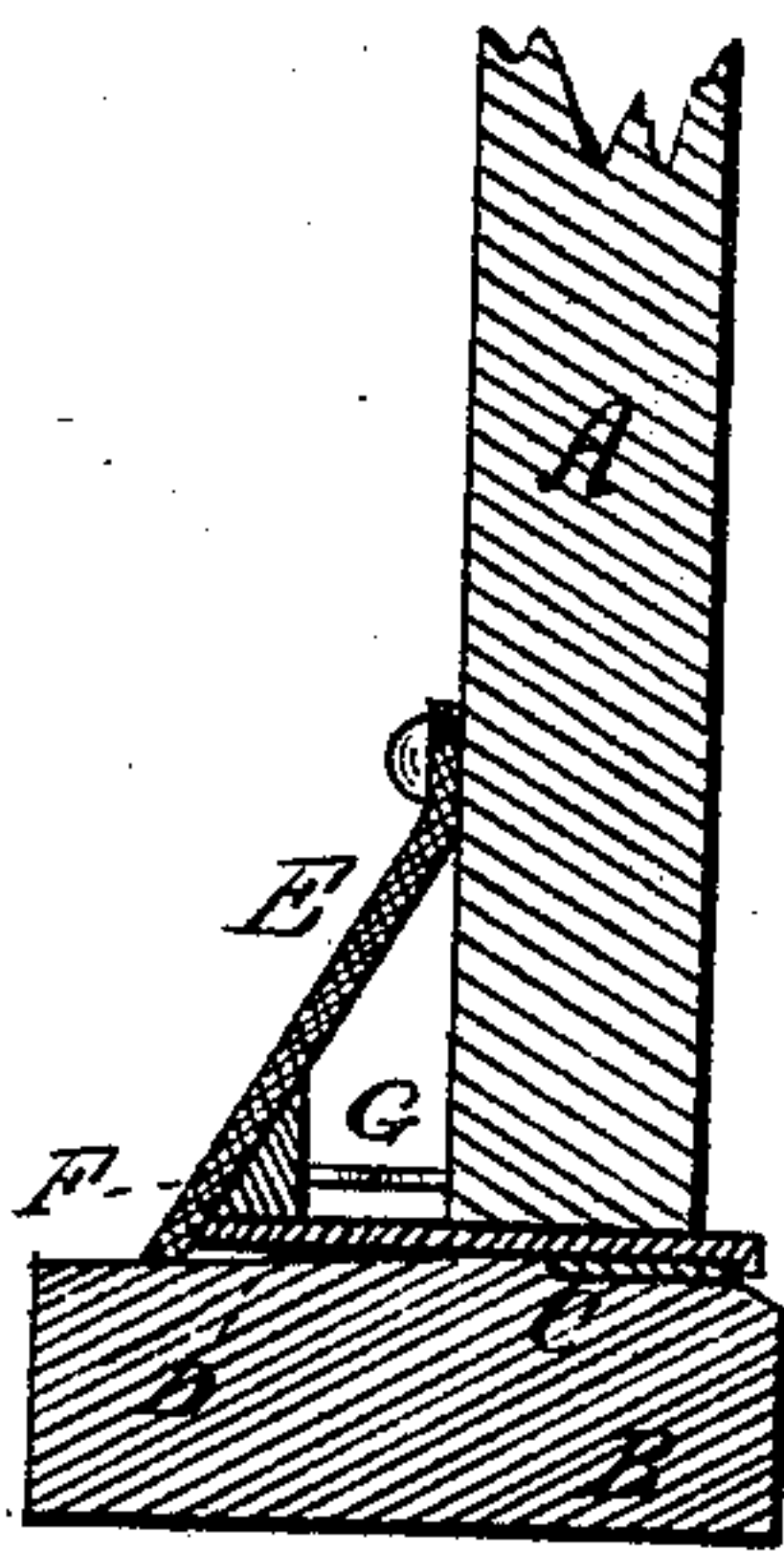


Fig. 2.



WITNESSES
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UNITED STATES PATENT OFFICE

JAMES CLEAVE, OF CLEVELAND, OHIO.

IMPROVEMENT IN WEATHER-STRIPS.

Specification forming part of Letters Patent No. **169,420**, dated November 2, 1875; application filed September 8, 1875.

To all whom it may concern:

Be it known that I, JAMES CLEAVE, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Door-Strips; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in weather-strips for doors, &c.

In the drawings, Figure 1 is a bottom view of a door and weather strip embodying my invention. Fig. 2 is a longitudinal section at a right angle to its face of a door and doorway as constructed according to my invention.

My invention consists in the following parts and combinations, as hereinafter specified and claimed, wherein—

A is a swinging door with its sill B. To the sill B is fixed, in any suitable manner, a catch, C, for the purpose of engaging with the catch-piece D, which is attached to the free edge of the weather-strip E and to the inner face of the same in any suitable manner, preferably, however, by means of a strip, F, fastened to the inner and lower edge of the elastic strip E, to which not only may the catch-piece D, as aforesaid, be attached, but likewise suitable springs G, which shall act to push upon the weather-strip E by their impingement against the door A, tending always to force it outward.

The parts adjusted and united as shown in the drawings, and as above described, it will appear obvious that when the door is open the springs G will operate to push out the weather-strip E, so that it will ride clear of the sill B. As the door A is closed the catch-piece D engages with the catch C in the sill B, and operates to draw down the weather-strip E, so that it shall rest closely against the floor, and thus prevent the ingress of air, rain, snow, or dust beneath the door A. As the door A is again opened the springs G will operate to push out the weather-strip E and raise it clear of the sill B.

What I claim is—

1. In combination with a door, the weather-strip E, operated by the spring G, and a horizontal latch, D, working against a catch, C, the latter placed on a sill, substantially as shown, so that its outer extremity is in the rear of that of the door, substantially as and for the purpose described.

2. The combination of the weather-strip E and catch-piece D, the latter extending from the lower inner edge of the door and engaging with the catch C, whereby, when the door is closed, the inner extremities of both catch and latch may snugly overlap one another, substantially as and for the purpose described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JAMES CLEAVE.

Witnesses:

THOMAS B. MALL,
C. E. BRERETON.