

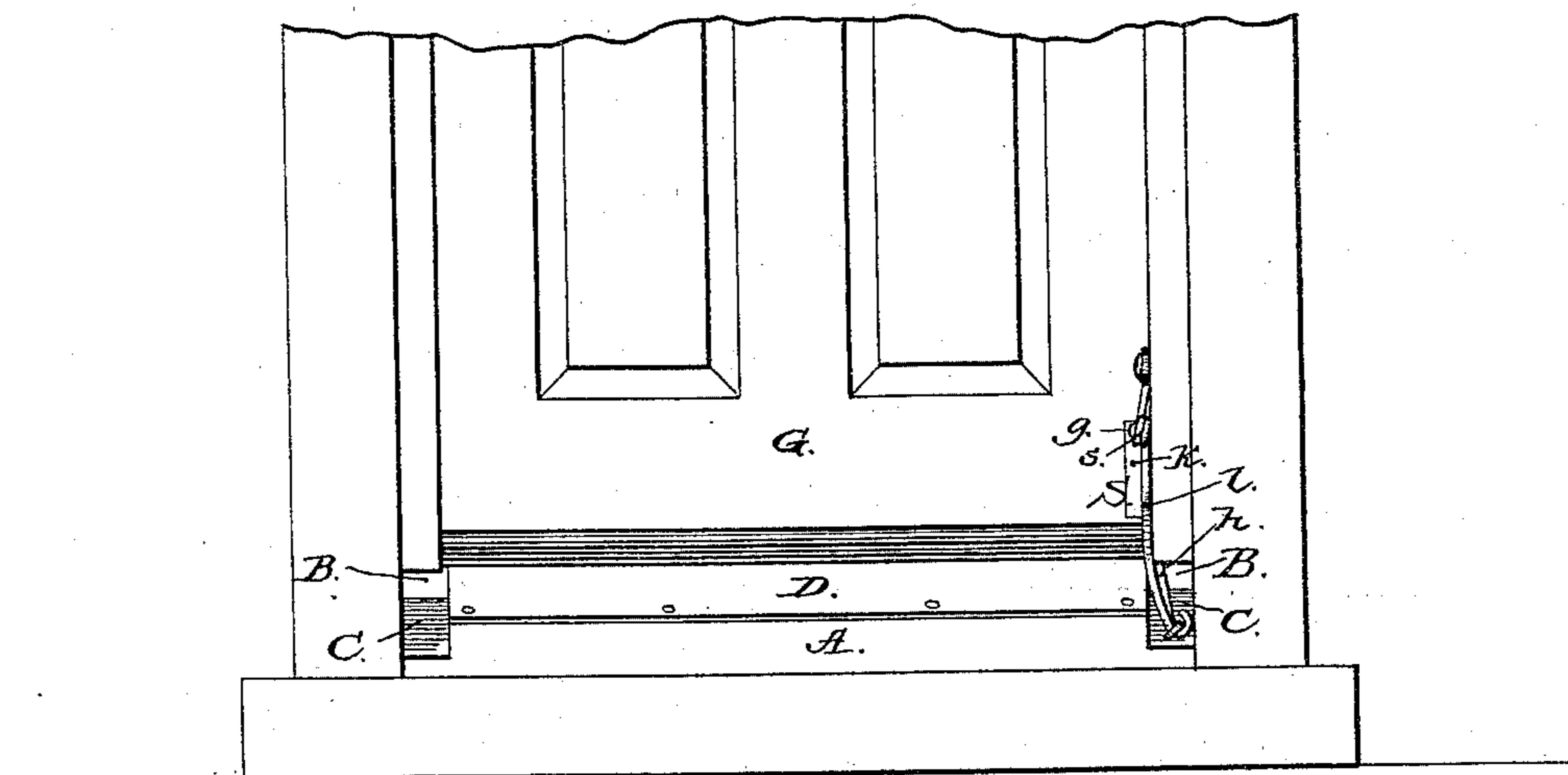
(No Model.)

J. A. FRANKLIN.  
Weather Strip.

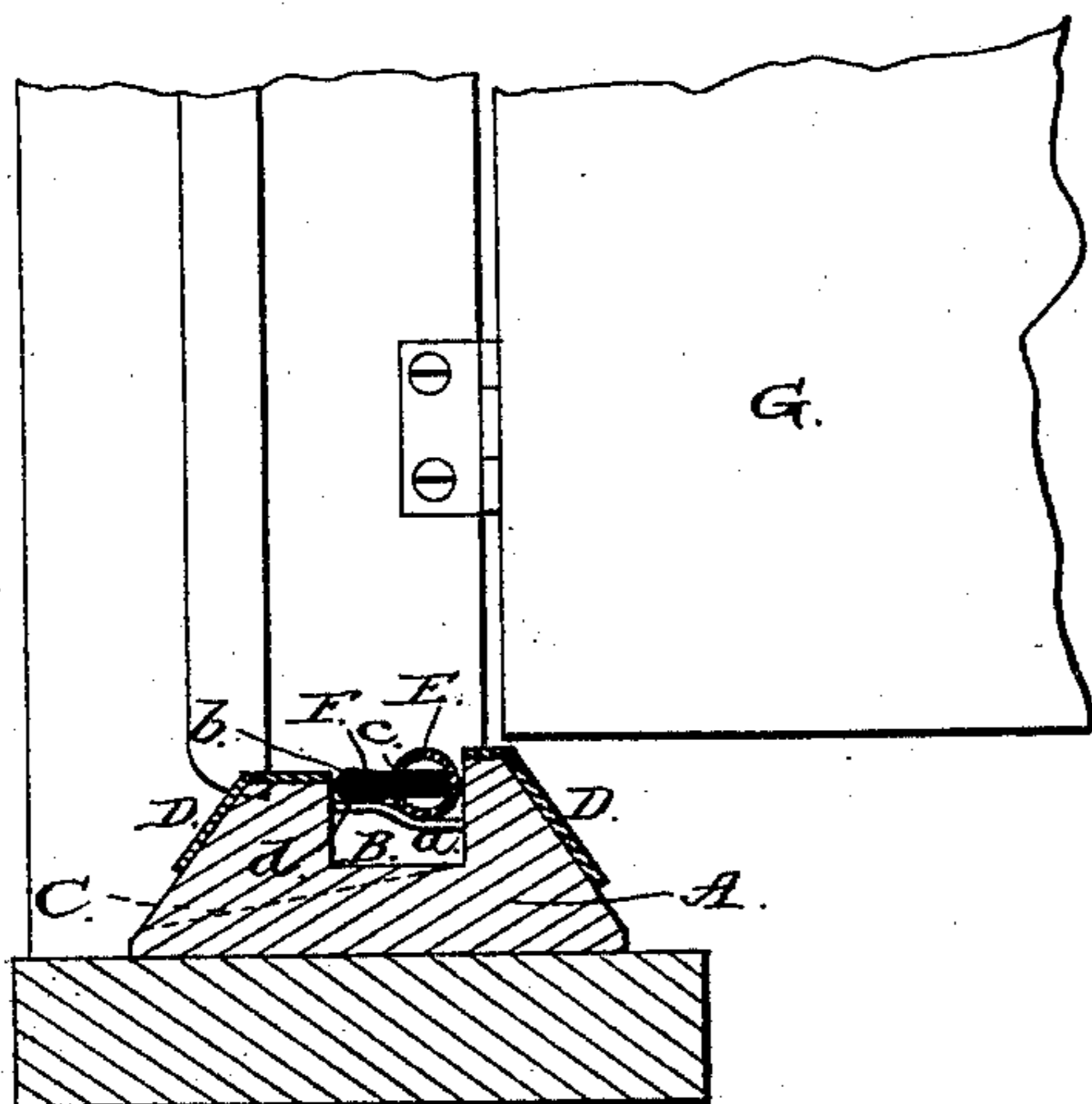
No. 232,957.

Patented Oct. 5, 1880.

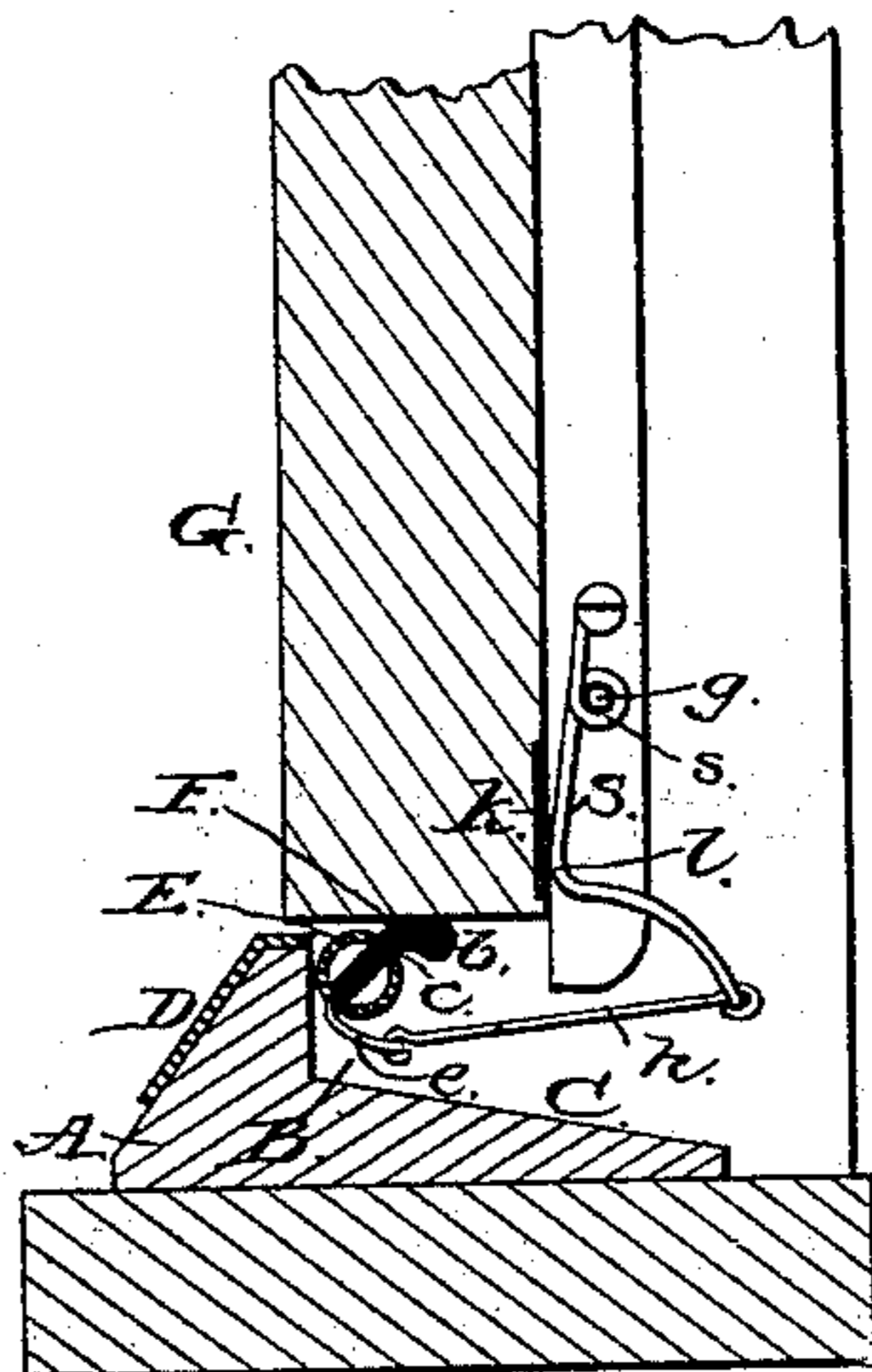
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



WITNESSES

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# UNITED STATES PATENT OFFICE.

JAMES A. FRANKLIN, OF AMERICA, INDIANA.

## WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 232,957, dated October 5, 1880.

Application filed August 14, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES A. FRANKLIN, of America, in the county of Wabash and State of Indiana, have invented a new and valuable Improvement in Weather-Strips; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a front view of this invention. Fig. 2 is a vertical transverse section, looking toward one side of the doorway. Fig. 3 is a vertical transverse section, looking toward the other side.

This invention has relation to weather-strips; and it consists in the construction and novel arrangement of the sill-piece having a longitudinal rectangular groove and end outlets, facing-strips on each side of the groove, a slit-cylinder or slotted-pipe rock-shaft, a beaded rubber strip clamped therein, and a spring-actuating device connected to an arm from the cylinder-shaft and operated automatically by the door, all as hereinafter shown and described.

In the accompanying drawings, the letter A designates the sill-piece, which is grooved longitudinally at B, this groove extending the entire length of the sill, and having outlet-channels C, formed with beveled floors, at its ends. The outer and inner portions of the sill on each side of the longitudinal groove are faced with metal, as indicated at D. Near each end of the groove bearings *a*, of wire or other material, are secured, serving to embrace a cylinder or pipe shaft, E, which is arranged next the inner wall of the groove, so that its upper surface will be about flush with the surface of the sill. This groove B is made wider than the diameter of the rock-shaft E, the outer space being closed by means of a rubber strip, F, which is formed with a rounded edge bead, *b*, to give it body and stiffness, and which is secured to the pipe-shaft by being clamped in a slot or cleft, *c*, made longitudinally in said shaft. In the groove B are secured wire bear-

ings or stops *d*, on which the beaded rubber strip rests when it is in the horizontal position, closing the groove.

At the end of the shaft next the lock side of the doorway said shaft is provided with a downwardly-extending arm, *e*, and a spring, S, having a coil, *s*, around a pin, *g*, is attached to the jamb, also extending downward, and connected to the arm *e* by means of a rod, *h*, extending through the outlet-channel C on this side of the sill.

The door G is provided with a metallic friction-plate, *k*, which is designed, when the door is closed, to engage a projecting portion, *l*, of the spring, causing it to pull the arm *e* outward and rotate the pipe-shaft one-quarter of a turn, thereby bringing the beaded strip into raised position with its bead edge in close contact with the under edge of the door.

When the door is opened the spring turns the rock-shaft outward, so that the beaded strip falls into horizontal position. Any water which may drive under the door when closed will be received in the groove B, this being open when the rubber strip is raised, and the water will be discharged at the ends of the sill through the outlets C.

I am well aware that it is not new to operate a hinged weather-strip by means of a spring connected thereto and acted upon by the door, and I do not claim, broadly, such devices.

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

In a weather-strip, the slotted-pipe rock-shaft E and the edge-beaded rubber strip F, clamped therein, in combination with the longitudinally-grooved sill-piece A, having the beveled end outlets, C, the rest-stops *d*, the arm *e*, actuating-spring S, and connection *h* from said spring, extending through one end outlet to said arm, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JAMES ANDREW FRANKLIN:

Witnesses:

NOAH SCOTT,

CHARLES LOUIS HAMSHER.