

No. 754,857.

PATENTED MAR. 15, 1904.

H. EAGON.  
WEATHER STRIP.

APPLICATION FILED DEC. 2, 1903.

NO MODEL.

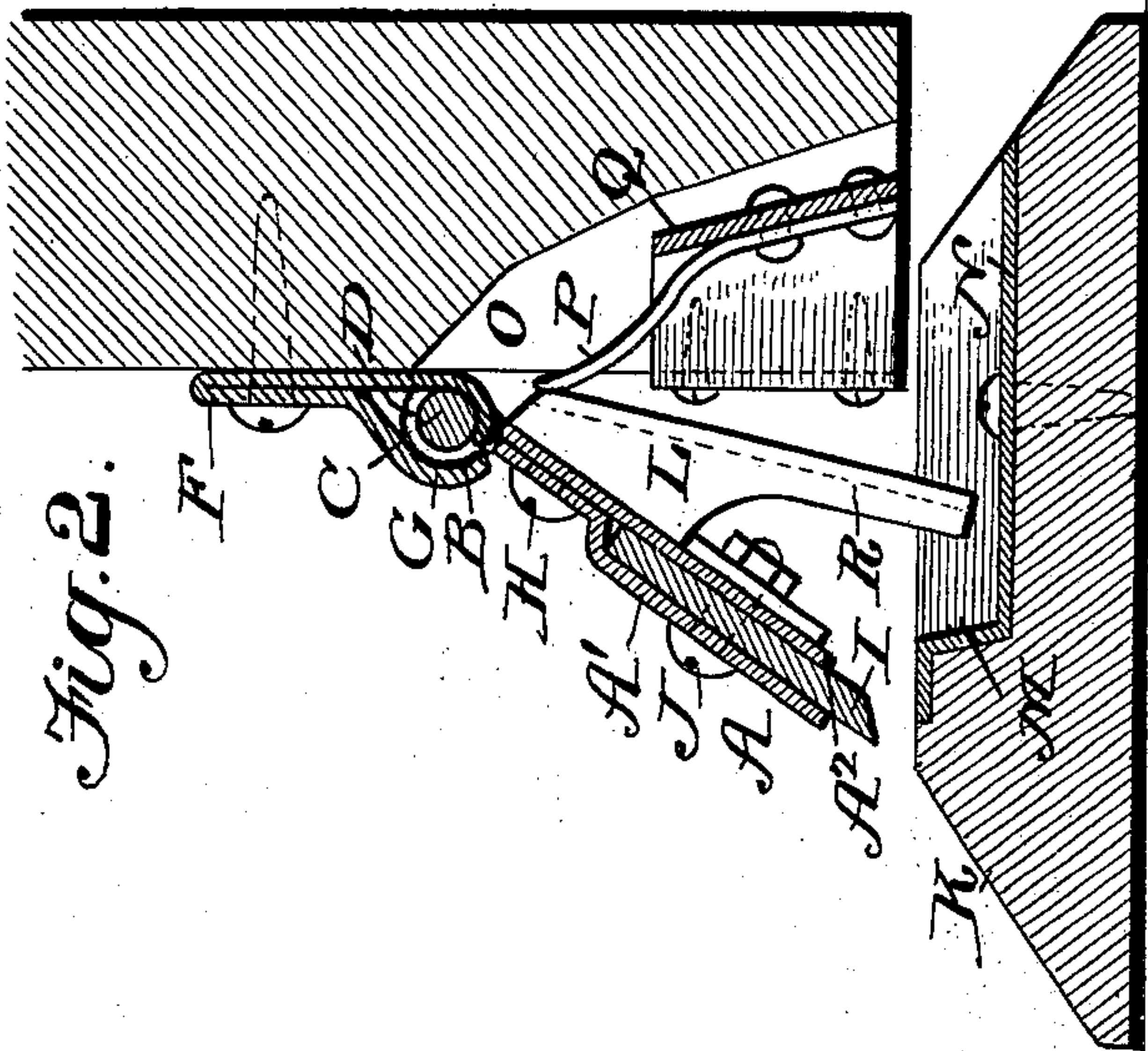


Fig. 2.

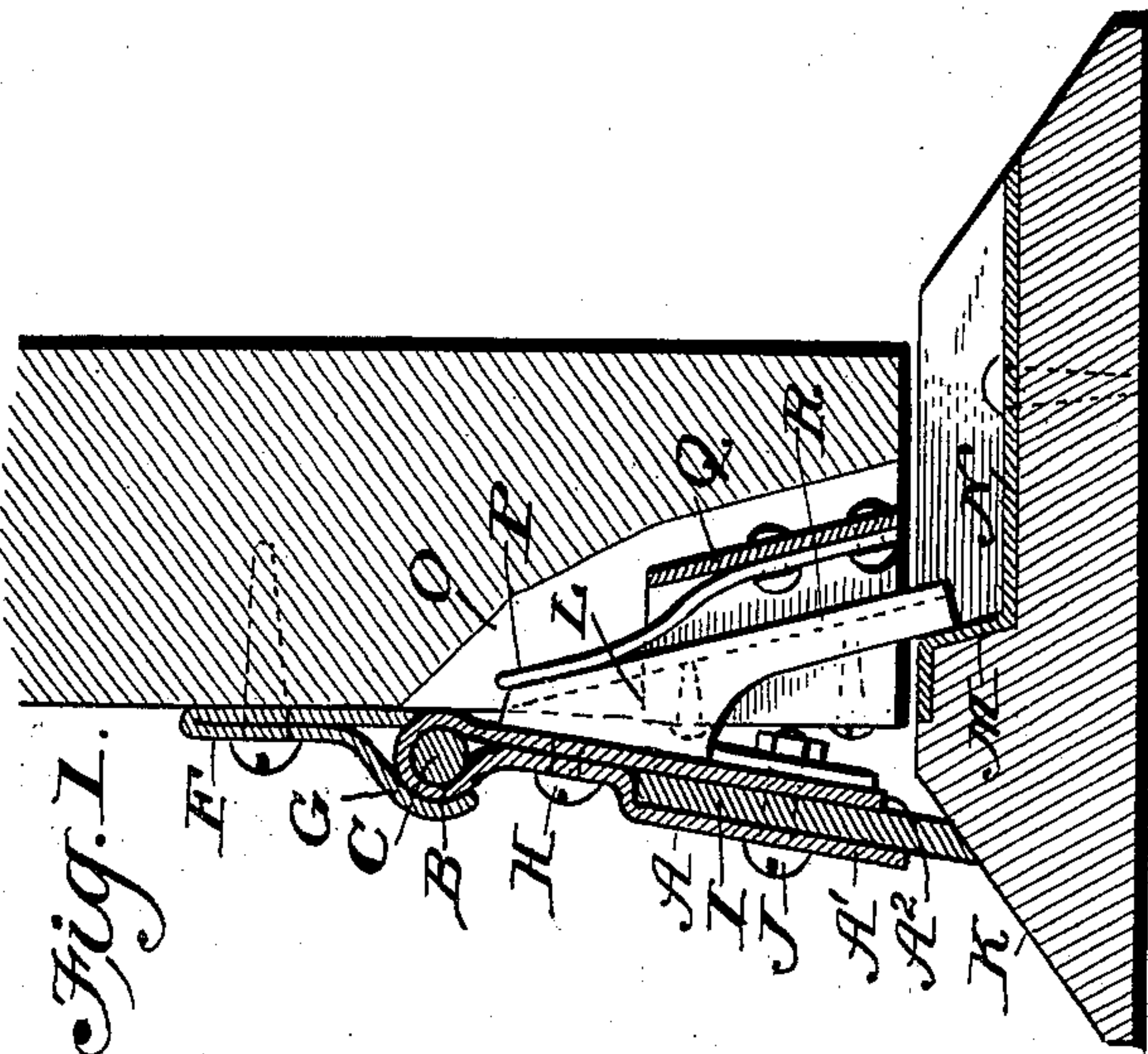


Fig. 1.

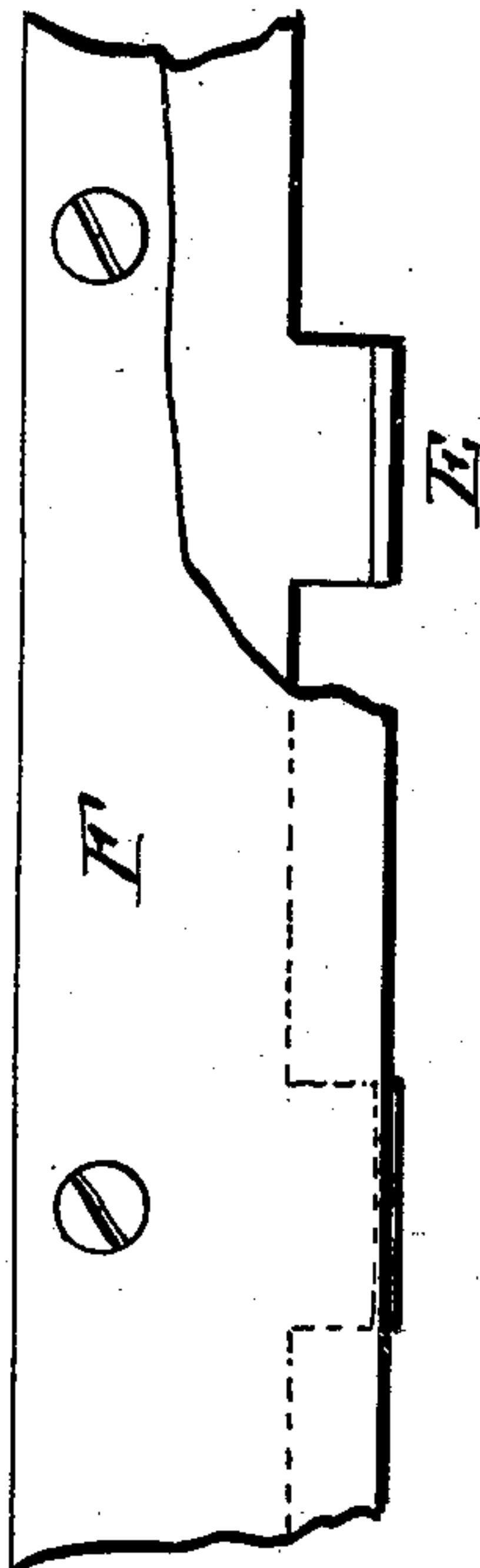


Fig. 4.

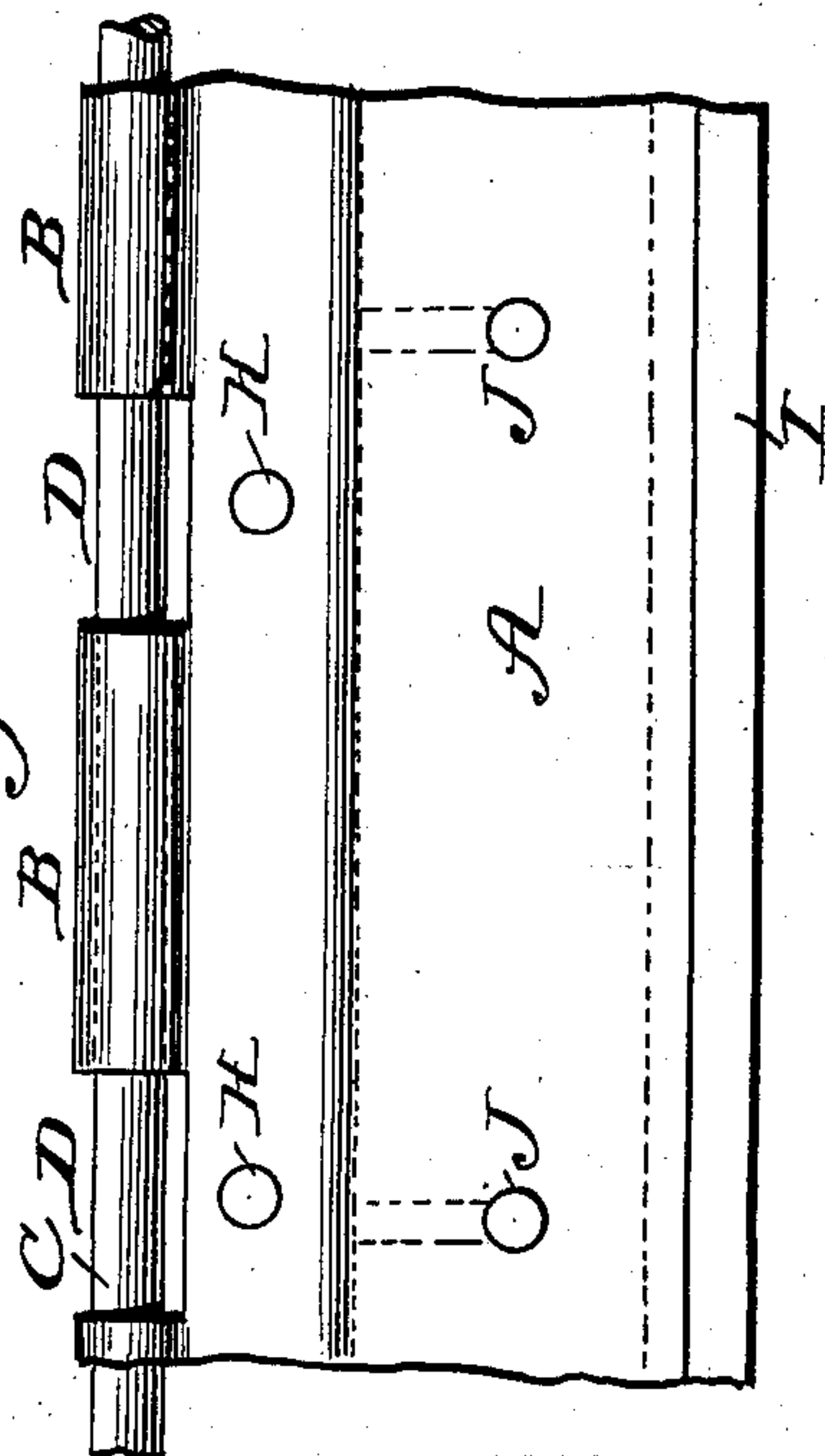


Fig. 3.

WITNESSES:  
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# UNITED STATES PATENT OFFICE.

HARVEY EAGON, OF NEW COMERSTOWN, OHIO.

## WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 754,857, dated March 15, 1904.

Application filed December 2, 1903. Serial No. 183,465. (No model.)

*To all whom it may concern:*

Be it known that I, HARVEY EAGON, a citizen of the United States, and a resident of New Comerstown, in the county of Tuscarawas and State of Ohio, have invented a new and Improved Weather-Strip, of which the following is a specification.

This invention relates to that type of weather-strips known as "hinge-acting" and intended for use at the lower or threshold end of a door.

The invention consists of the special construction and arrangement of parts automatically operating upon closure of the door to provide effective packing whereby rain, wind, dust, and cold air are prevented entrance through such opening as may be between the door and carpet-strip or door-sill.

In describing my invention reference is had to the accompanying drawings, forming a part of this specification, and to the characters of reference marked thereon.

In the drawings, Figure 1 is a vertical transverse sectional view through the weather-strip, the threshold-sill or carpet-strip, and a broken-away lower portion of a door, the latter being shown at closed position. Fig. 2 is a similar sectional view, the door being shown at part-way-open position and the weather-strip adjusted, adapted for riding free of the threshold sill or strip. Fig. 3 is a broken-away detail plan view of the weather-strip-fastening plate, and Fig. 4 is a similar view showing the weather-strip and its supporting rod.

My invention comprehends in its preferred form the employment of a plate A bent lengthwise on itself, forming double flanges A' A<sup>2</sup>, whose upper edge is made loop shape, as at B, adapted to receive the rod C. The upper edge B of the compound plate thus formed is cut away at intervals D, forming recesses adapted to receive curved spaced tongues E on the under member of a compound plate F. The lower edge of the outer member of the plate F is bent outwardly and inwardly, forming a retaining-socket G, adapted to receive the upper round edge B of the plate A, whereby hinge-acting connection is effected between the plates A and F. The members A' A<sup>2</sup> of

the plate A may have clamping bolts or rivets H, as shown, and it will be noticed that the member A' is bent outwardly and downwardly along its lower edge, forming a socket, into which is arranged a packing-strip I, secured by bolts, rivets, or other suitable means J. The plate F is located on and secured to the door, as shown, adapting the plate A and its packing-strip I to swing down, with the lower edge of the strip I in contact with the sill-strip K, (see Fig. 1,) closing passage-way between the lower edge of the door and the sill-strip K, as will be understood.

On the rear side of the plate A, I secure a downwardly-inclining finger L, whose lower end is arranged for engagement with any suitable shoulder M, which shoulder may constitute the inner end of a suitable trough-like plate N, sunk into the sill K.

In securing my improved weather-strip on the door the latter is recessed, as at O, adapted for receiving the finger L and to provide space for a spring P, which may be supported by a U-shaped bracket Q, secured to the door, or by other approved means. The yielding end of the spring P has bearing against the rear side of the finger L, and it may be guided by a slight groove in the finger, (indicated by dotted lines R.)

The use of my invention will be understood. It is novel not only in stability of construction, but owing to the effective and improved exclusion of rain, snow, or cold air, and dust from entrance between the lower edge of the door and the doorway-threshold when the door is closed.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination in a hinge-acting weather-strip, of a folded lower plate having a packing-strip at its lower edge, a folded plate adapted to be secured to a door and with its lower edges bent into socket form, adapted to receive and provide hinge-acting connection and support for the said lower plate, yielding means operating for holding the lower plate to elevated adjustment, and a finger on the lower plate, adapted for engagement with a fixed shoulder, on the threshold, and whereby

the said plate is drawn down to closing position, upon closure of the door, substantially as described.

2. In a weather-strip, the combination of a  
5 packing-strip and support, a plate adapted to be secured to a door and having hinge connection with the packing-strip support, a spring on the door, holding the packing-strip and its support yieldingly elevated, a fixed shoulder on  
10 the door-sill and a finger on the packing-strip support, adapted for engagement with the said shoulder, upon closure of the door, substantially as described.

3. The combination of an upper folded plate,  
15 adapted to be secured to a door and provided with a socket along its lower edge, a lower folded plate with an upper edge arranged in the said socket, providing hinge-acting connec-

tion with the said upper plate, a packing-strip at the lower edge of the lower plate, a down- 20 wardly-inclining finger on the lower plate, a spring on the door, a U-shaped plate set into the door, providing support for the said spring, and a trough-like depressed plate on the door-sill, having a shoulder at one end, with which 25 the said finger engages, upon closure of the door, a free end on said spring being adapted for engagement with a groove in the rear edge of the said finger and operating to yieldingly hold the packing-strip elevated, upon opening 30 action of the door, substantially as described.

HARVEY EAGON.

Witnesses:

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J. E. WOOD.