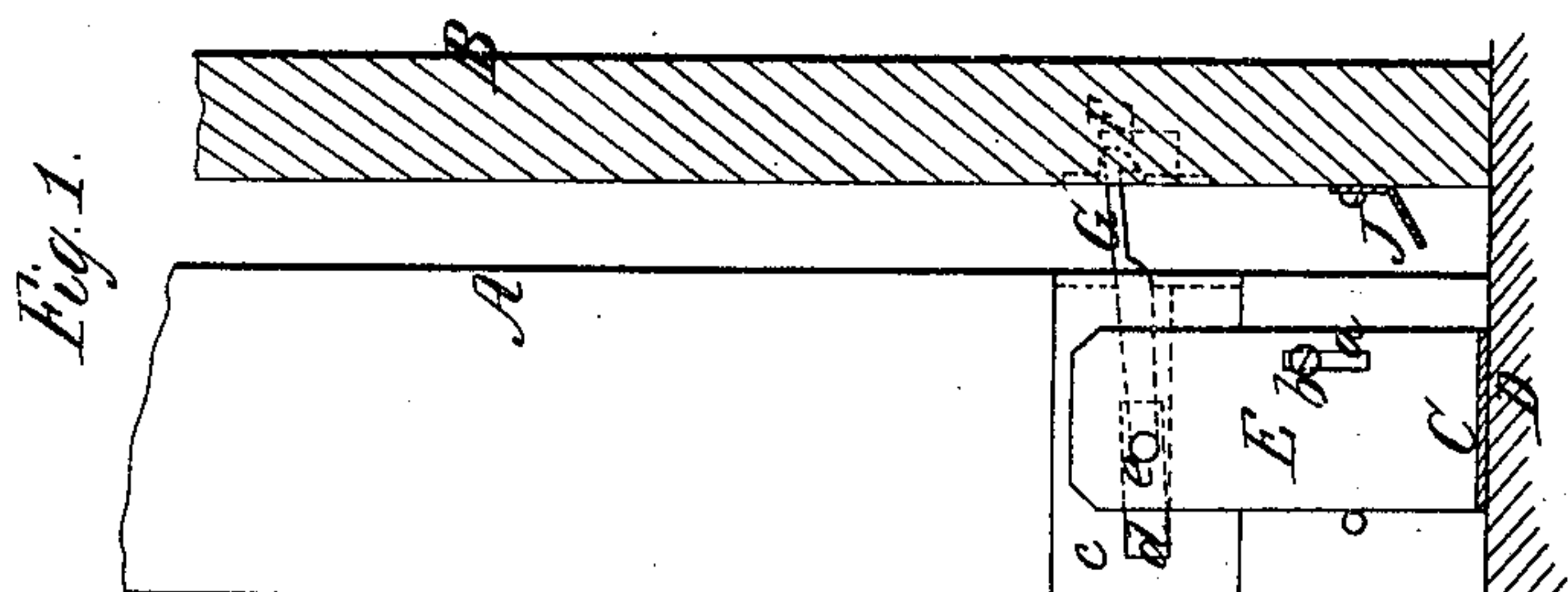
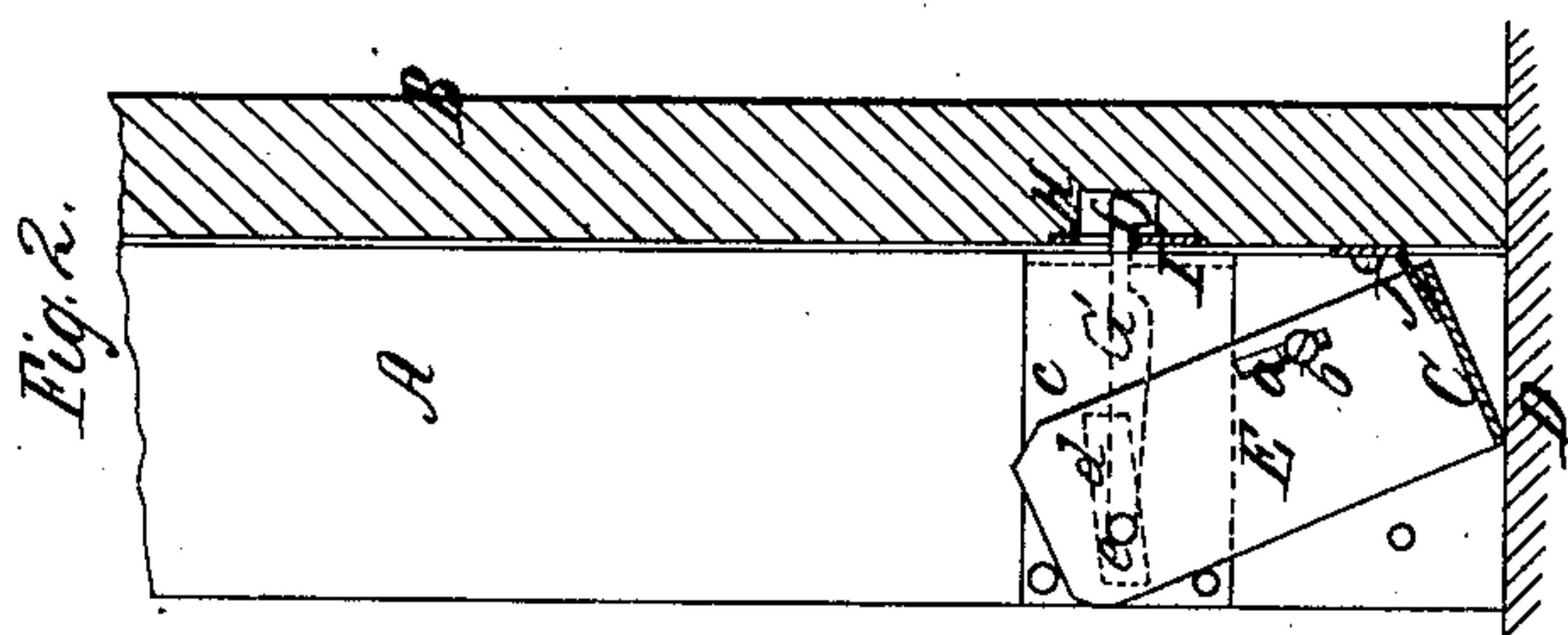
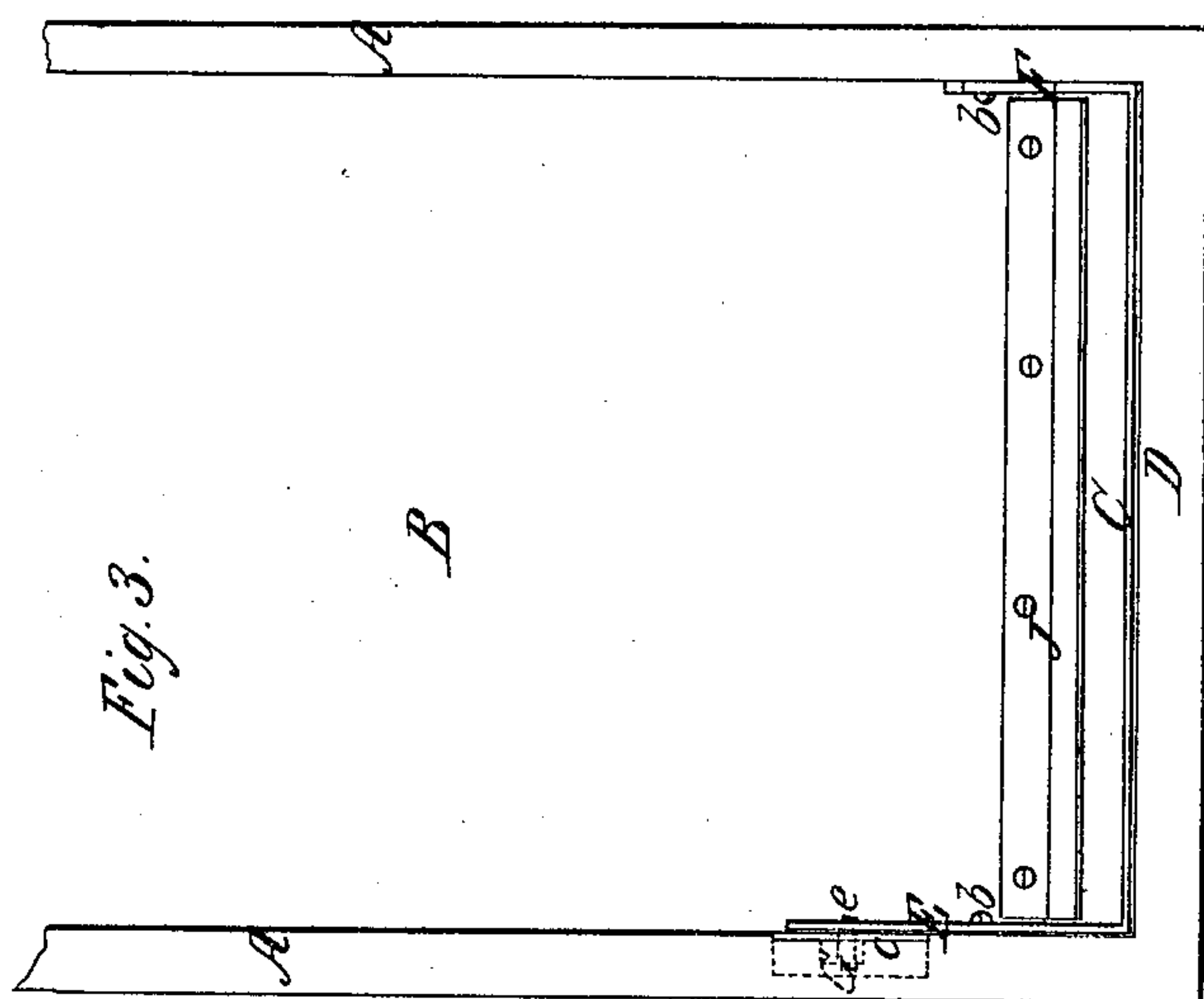


*M. M. Shellberger.*

*Threshold.*

*N<sup>o</sup> 20,590.*

*Patented Jun. 15, 1858.*



# UNITED STATES PATENT OFFICE.

M. M. SHELLABERGER, OF JOLIET, ILLINOIS.

## WEATHER-STRIP FOR DOORS.

Specification of Letters Patent No. 20,590, dated June 15, 1858.

*To all whom it may concern:*

Be it known that I, M. M. SHELLABERGER, of Joliet, in the county of Will and State of Illinois, have invented a new and Improved Weather-Strip for Doors; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figures 1 and 2, are transverse vertical and central sections of a door with my improvement applied to it. Fig. 3, is an outer side or face view of ditto.

Similar letters of reference indicate corresponding parts in the several figures.

This invention consists in having a metal plate bent upward at its ends and pivoted to the casing or frame of the door. The horizontal portion of the plate extends the whole length of the door sill, and a slide is connected with one of the end pieces of the strip and so arranged that as the door is closed the plate will be inclined or tilted so that its upper edge will pass underneath a plate attached permanently to the door, the whole being arranged as hereinafter shown and described whereby a perfect weather proof door strip is obtained.

To enable those skilled in the art to fully understand and construct my invention I will proceed to describe it.

A, represents the casing or framing of a door, and B, is a door hinged to the casing or framing as usual.

C, is a metal plate of a suitable width. This plate extends the whole length of the sill D, of the casing or framing and it has end pieces E, F, which project upward at right angles with the plate. These end pieces may be bent upward and formed from one and the same piece of plate, which may be made sufficiently long to allow for the end pieces and have the horizontal part C, sufficiently long. Each end piece E, F, has an oblong vertical slot *a*, made through it, and screws *b*, pass through these slots, one through each, said screws passing into the sides of the casing.

G, is a slide which is fitted in one of the stiles of the casing or framing and is allowed to work freely back and forth therein, said slide being fitted in a recess in the stile and secured therein by a metal plate *c*. The plate *c*, has an oblong slot *d*, made

through it and the slide G, is connected to the upper part of the end piece E, by a pivot *e*, which passes through the slot *d*. The outer end of the slide G, has a catch *f*, formed on it.

H, is a recess made in the door near its outer edge and opposite the end of the slide G, said recess having a plate I, secured over it, the plate having a slot made in it to allow the end of the slide to pass through, the plate forming a hold-fast for the catch.

To the outer side of the door B, a metal strip J, is attached, said strip projecting obliquely downward from the door as shown plainly in Figs. 1 and 2.

The operation is as follows:—As the door B, is closed, it will, just before it touches the framing A, strike the slide G, and the latter will tilt the plate C, so that its inner edge will pass underneath the plate J, the outer edge of plate C, resting on the sill D. The plate C, is allowed to tilt or move as described in consequence of its pivots or screws *b*, passing through the slots *a*. As the door B, is opened the slide G, will be drawn outward and the plate C, will be turned down flatwise on the sill D, and this movement of the slide is made at once so that it will be immediately adjusted to the sill and present no obstacle to persons in passing over the sill. And the plate C, when the door is closed, is not raised or tilted upward until the door is nearly closed, so that the plate is adjusted in either position without obstructing the passage over the sill. The slide G, in moving outward is released from the plate I, at the proper time in consequence of its moving outward in an inclined direction, owing to the position of its bearings.

I do not confine myself to any particular material in the construction of the strip, although metal plate may be probably used for the ends E, F, the plate or strip C, however may be of wood or a wooden strip secured to a metal plate.

I do not claim broadly a hinged door or weather strip so arranged as to be actuated by the opening and closing of the door for many such devices have been used; but,

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

The plate or strip C, provided with end pieces E, F, pivoted to the casing A, as shown, viz., by pivots or screws *b*, passing



through oblong slots  $a$ , in the end pieces and having one of the plates connected to a slide  $G$ , as shown, and provided with a catch  $f$ , which, when the door is closed, 5 passes within a recess  $H$ , in the door, and over a plate  $I$ , the above parts being used in connection with the plate  $J$ , or its equiva-

lent, and the whole being arranged to operate as and for the purpose set forth.

MICHAEL M. SHELLABERGER.

Witnesses:

GEORGE BELL,  
P. W. ASPER.