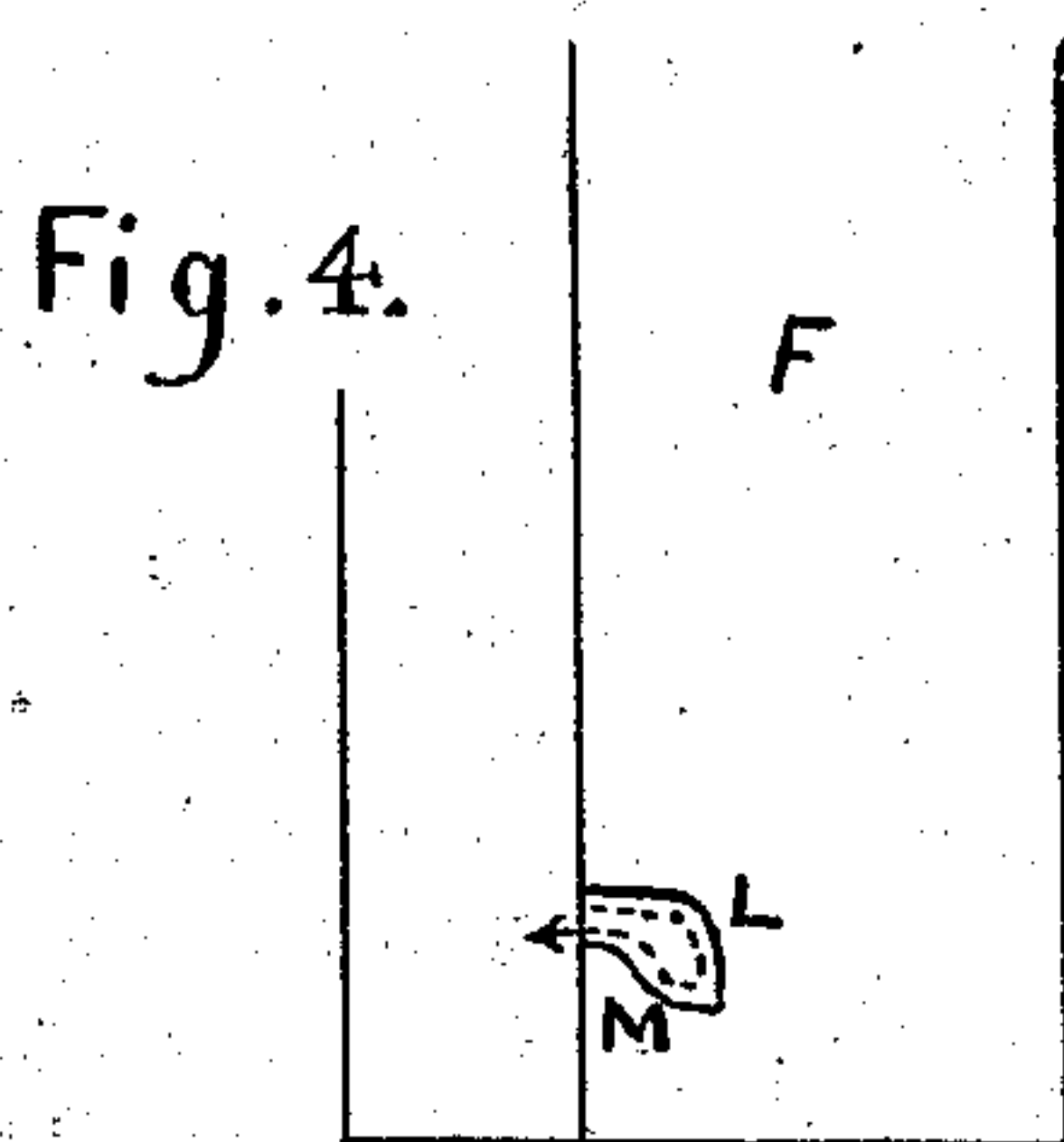
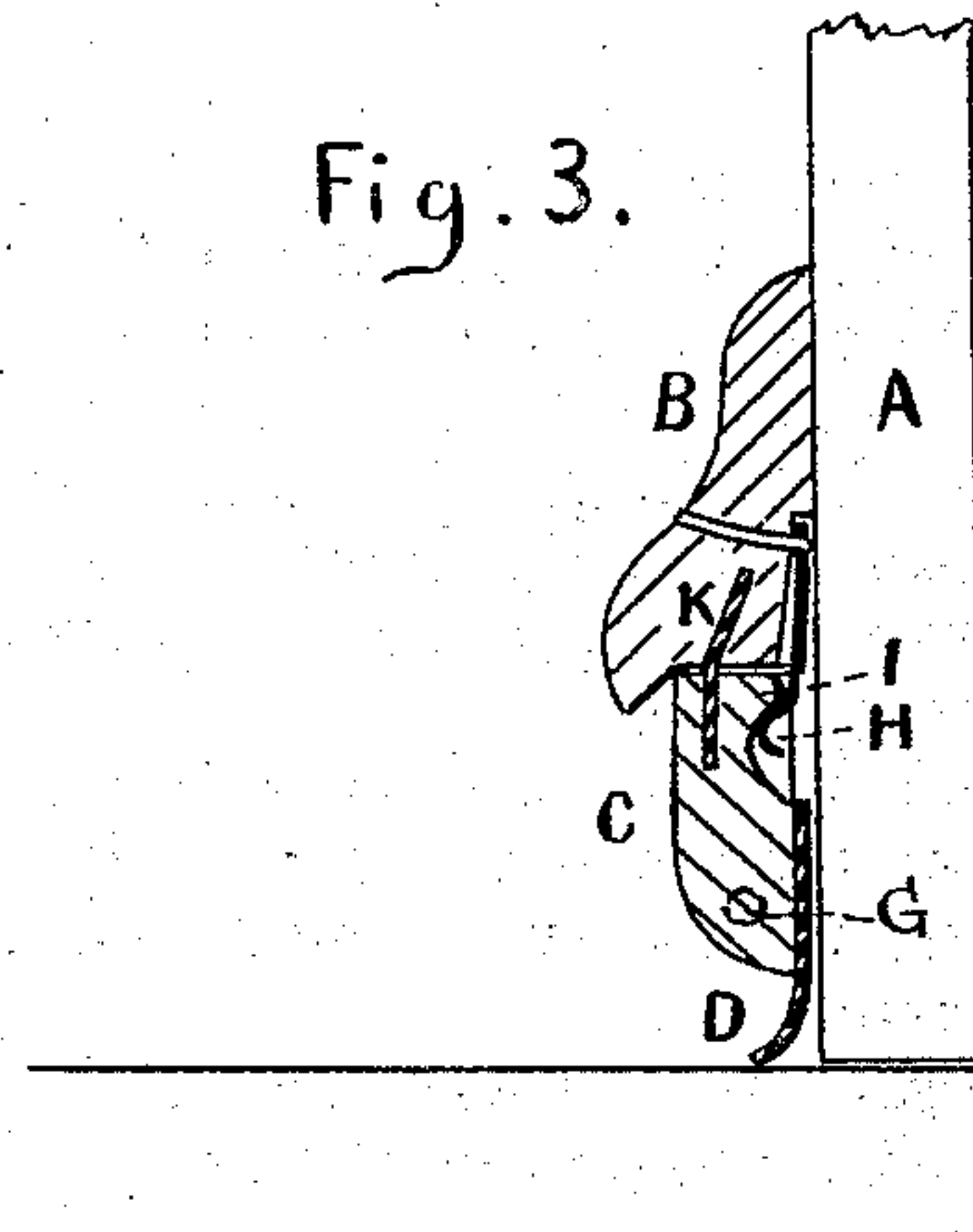
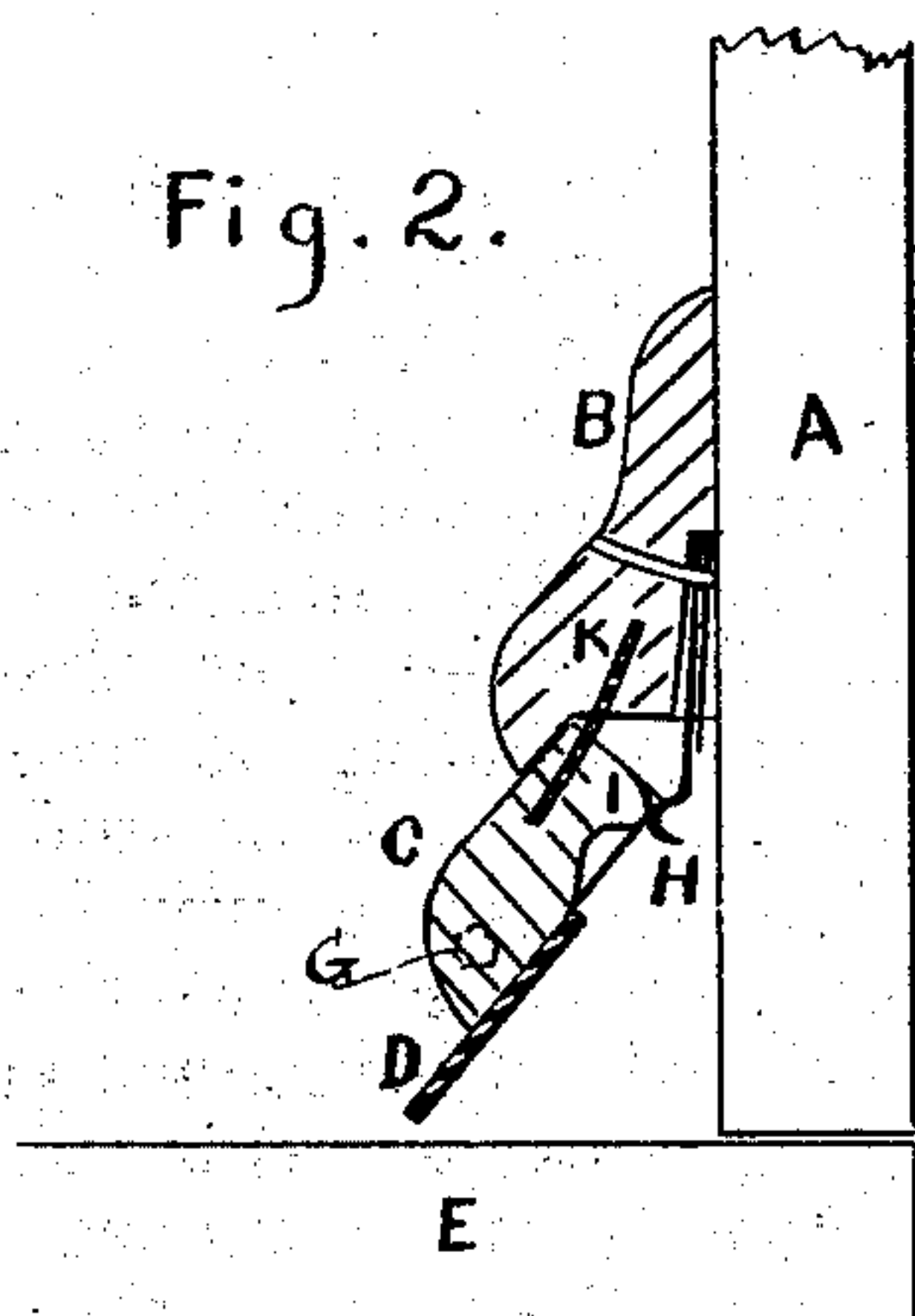
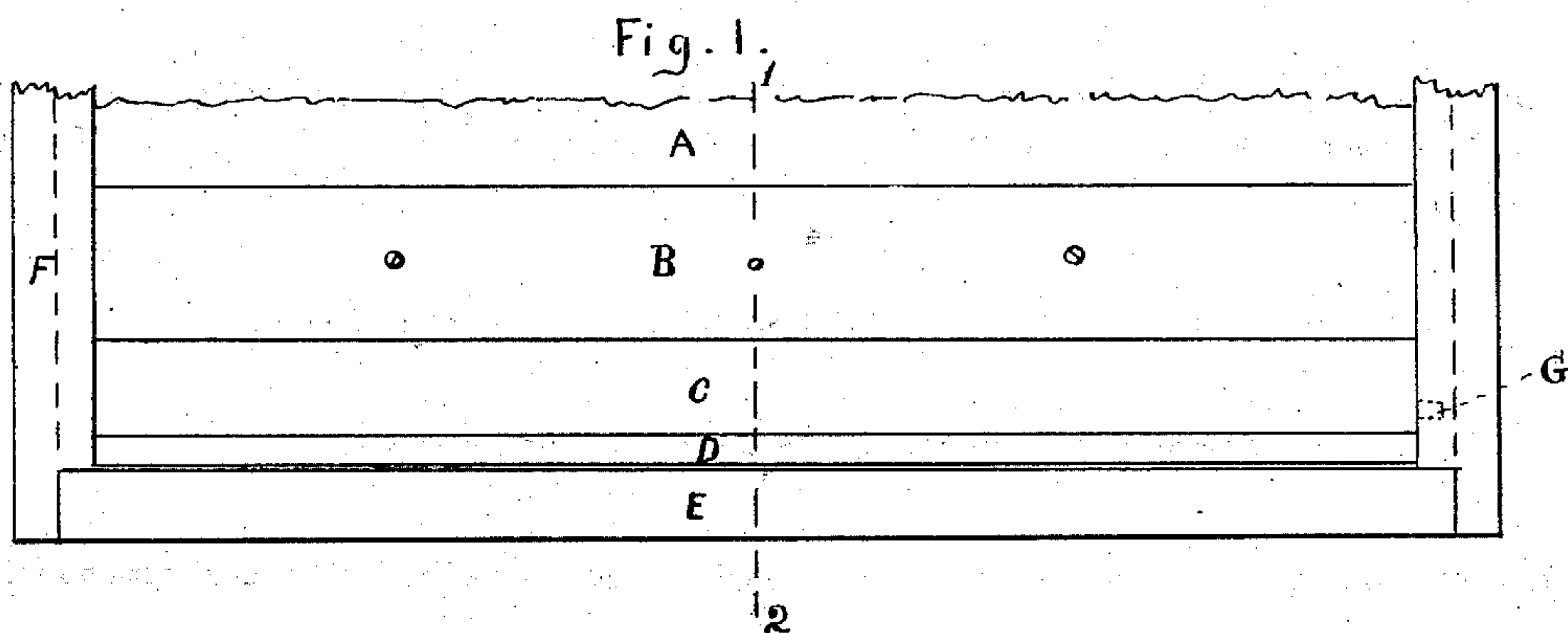


A. N. LOPER.
Weather-Strips.

No. 155,617.

Patented Oct. 6, 1874.



Witnesses:

Wm H. Page.
H. A. Daniels

Inventor:

Atwood N. Loper by
R. H. BOYNTON Atty.

UNITED STATES PATENT OFFICE.

ATWOOD N. LOPER, OF OSHKOSH, WISCONSIN.

IMPROVEMENT IN WEATHER-STRIPS.

Specification forming part of Letters Patent No. **155,617**, dated October 6, 1874; application filed May 25, 1874.

To all whom it may concern:

Be it known that I, A. N. LOPER, of the city of Oshkosh, Wisconsin, have invented a new and useful Improvement in Weather-Strips for Doors in Dwellings, of which the following is a true and full description, reference being had to the drawings and letters of reference marked thereon.

The object of the invention is to construct a weather-strip in such a manner that when the door is closed all strain will be removed from the bottom of the door.

The invention consists of devices constructed and combined in the manner hereinafter specified.

Figure 1 is a front view of the lower part of a door and jambs, showing the application of my weather-strip thereto. Fig. 2 is a section through the door and strip on the line 1 2 in Fig. 1, showing the weather-strip up. Fig. 3 is a similar view, showing the strip down. Fig. 4 shows the inside of the door-jamb and the means and devices employed in pressing down the strip when the door is closed, and for facilitating the opening of the door.

Similar letters of reference indicate similar parts of the invention in all the views.

In the drawing referred to, A designates the door. B indicates a molding secured to the door, and C the wooden portion of the weather-strip connected by the rubber hinge K to the said molding. The bottom of the wooden strip C is provided with a rubber strip, D. E is the sill, and F the door-jamb. H represents

a spring-catch held to the molding B in some appropriate way, and extending a short distance below it, its lower end having a semicircular curve, as shown. Within the strip C is a semicircular recess, into which the curved end of the spring-catch fits when the weather-strip is down. If desired, more than one spring-catch and its attending devices may be used. G represents a pin or stud used with the irregularly-curved cavity L M in the jamb F, to stop and press down the strip when the door is closed. The inclined part M of the said cavity or recess serves to raise the pin G when the door is to be opened. The semicircular recess in the strip C, when used with the spring-catch, serves to stiffen and hold the weather-strip in place, and, as seen in Fig. 3, this arrangement of devices enables the strip to fit up closely against the door. The stud and its inclined cavity L M serve to give the weather-strip greater efficiency, and to facilitate the opening of the door by relieving the pressure from it.

I claim as my invention—

The molding B, having the spring-catch H, and recessed strip C, provided with the pin G, the said molding and strip being connected by the rubber hinge K, in combination with the irregularly-shaped cavity L M in the jamb F, substantially as specified.

ATWOOD N. LOPER.

In presence of—

J. HANCOCK,
H. D. VANDERCOOK.