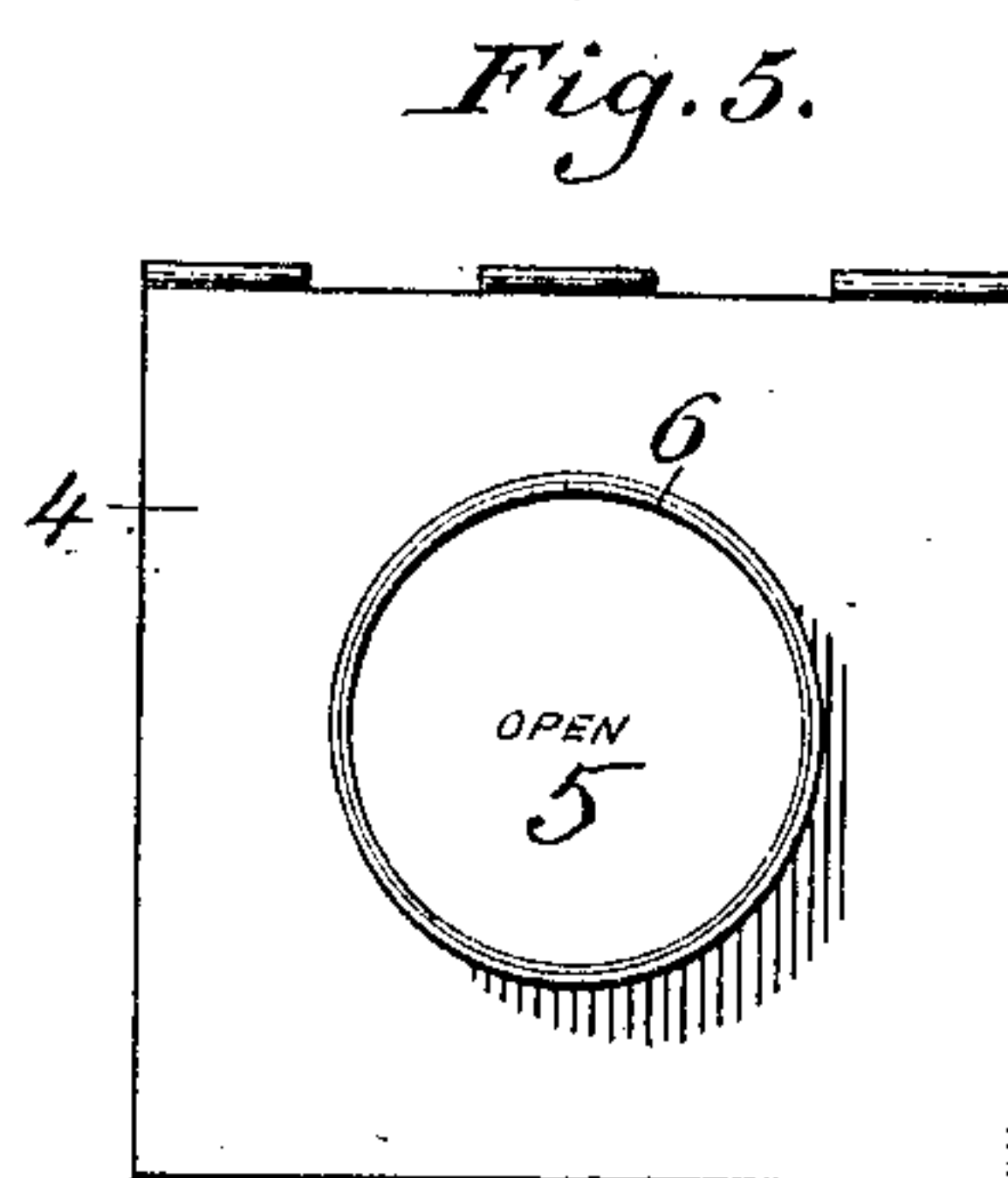
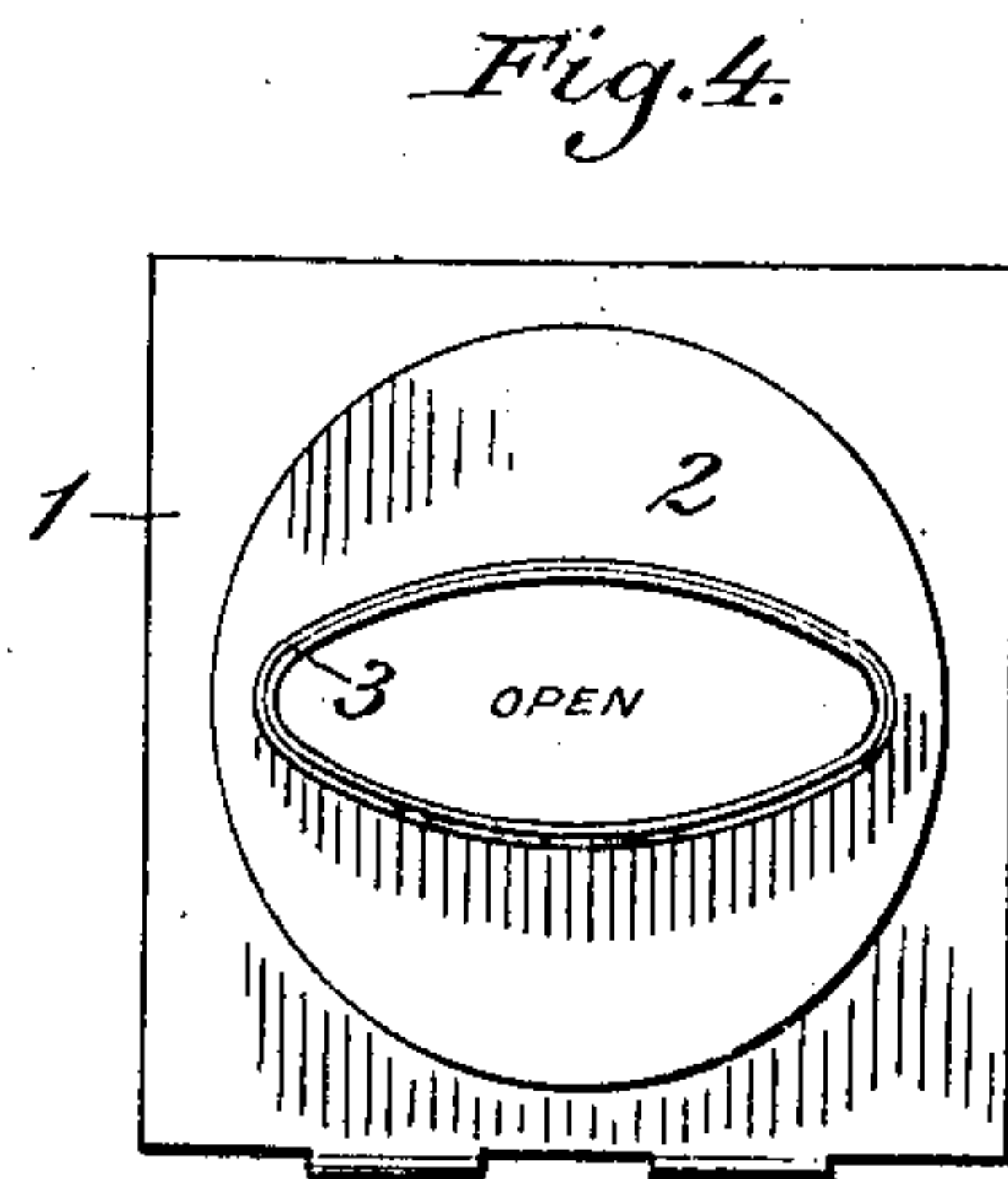
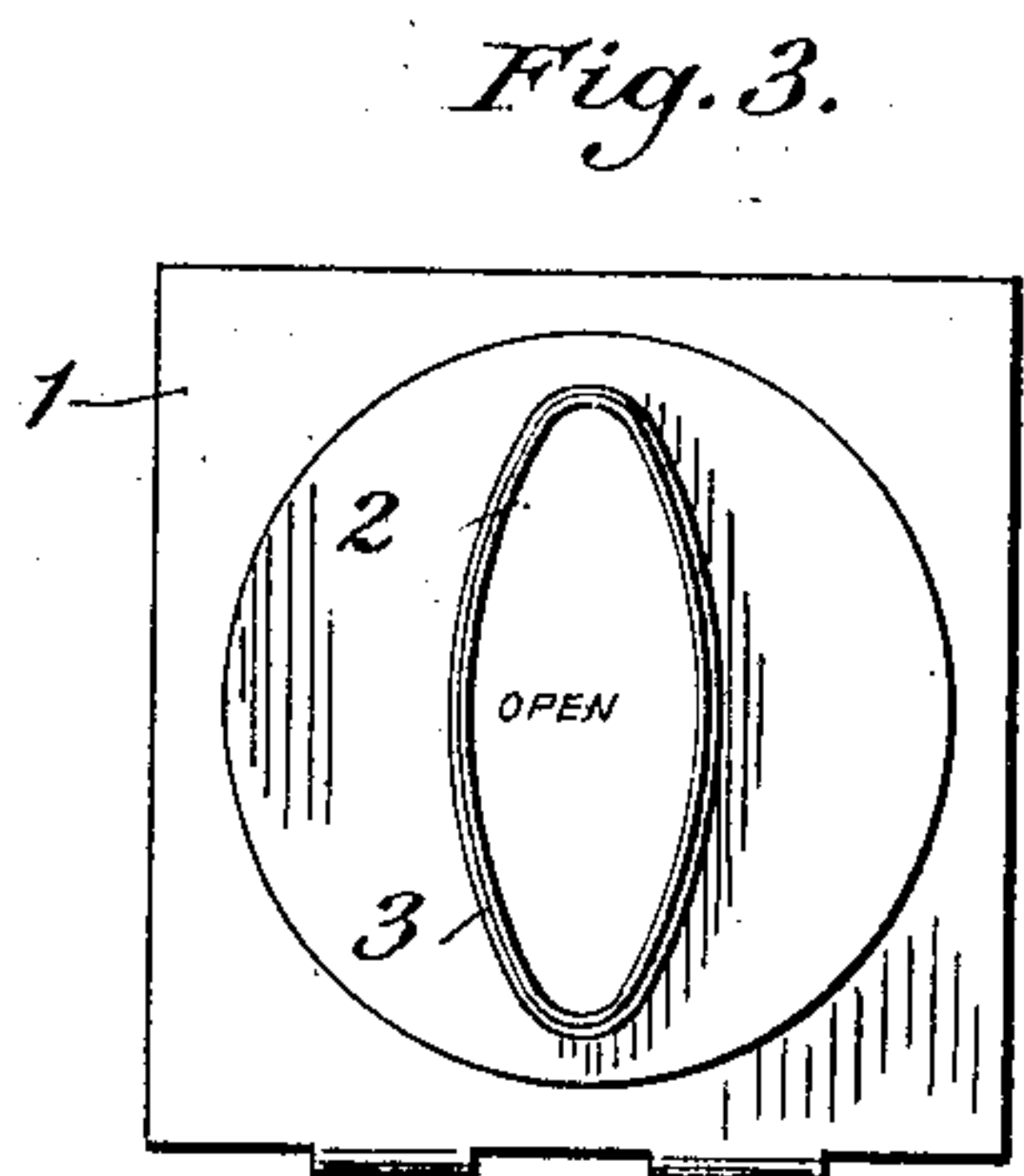
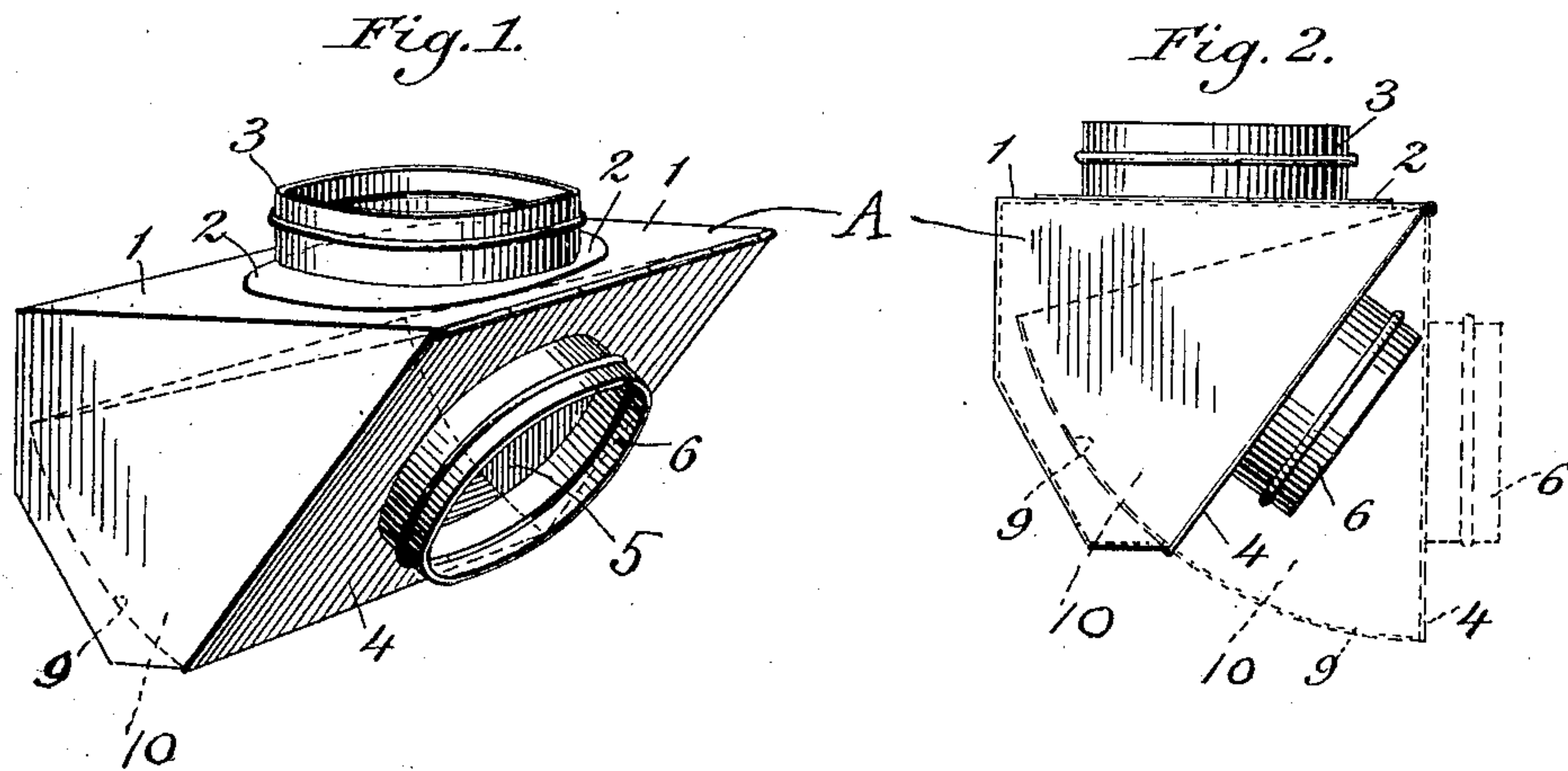


H. B. EAGER.  
FURNACE PIPE FITTING.  
APPLICATION FILED NOV. 14, 1907.

925,762.

Patented June 22, 1909.



Witnesses:

Eugene M. Herr.  
Harold E. Herr.

Inventor:

Harry B. Eager



# UNITED STATES PATENT OFFICE.

HARRY B. EAGER, OF NILES, MICHIGAN.

## FURNACE-PIPE FITTING.

No. 925,762.

Specification of Letters Patent.

Patented June 22, 1909.

Application filed November 14, 1907. Serial No. 402,183.

*To all whom it may concern:*

Be it known that I, HARRY B. EAGER, a citizen of the United States, residing at Niles, in the county of Berrien and State of Michigan, have invented new and useful Improvements in Furnace-Pipe Fittings, of which the following is a specification.

This invention relates to furnace-pipe boots.

One object of the invention is to provide a furnace-pipe boot embodying such characteristics as to adapt it for adjustment to properly receive the lead pipe from the furnace regardless of the direction and pitch of the lead pipe.

Another object of the invention resides in the provision of a furnace-pipe boot which may be readily positioned and which will permit of a shifting of the furnace lead pipe to different inclinations after the latter has been secured to the wall stack or register box, thereby obviating the use of extra fittings and yet insuring a perfectly and easily made joint for any location.

A still further object of the invention is to provide a device adapted to obviate the necessity of carrying in stock a large number of boots for the accommodation of different pitches of pipe.

With the above and other objects in view, the present invention consists in the combination and arrangement of parts hereinafter more fully described, illustrated in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes may be made in the form, proportion, size and minor details without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings:—Figure 1 is a perspective view of the invention. Fig. 2 is a side elevation illustrating the hinged or adjustable face of the boot in full and dotted lines to indicate adjustments. Fig. 3 is a top plan view of the upper or fixed side of the boot, illustrating the pipe connecting collar in one position. Fig. 4 is a similar view showing the pipe connecting collar in a different position. Fig. 5 is a top view of the pipe connecting collar shown on the adjustable face in Fig. 1.

Referring now more particularly to the accompanying drawings, it will be seen that the boot A is hollow and has its top 1 provided with a central opening into which is snapped a disk 2 carrying a collar 3 to which

is connected the pipe (not shown) which leads to the stack or register box, the disk 2 being rotatable in said opening. The collar 3 in Fig. 1 is of different shape than that shown in Figs. 3 and 4 these two latter views showing one type of collar in two different positions.

The top 1 overhangs one side of the boot, and hingedly connected to the top 1 is an adjustable face plate 4 having a central opening 5, said face 4 having a curved lower portion or wing, shown by dotted lines at 9 in Figs. 1 and 2, and which also has side wings 10 connecting the curved portion 9 and the adjustable face plate 4, said curved portion or wing 9 and side wings 10 being adapted to swing into and out of the hollow boot, as indicated by dotted lines in Figs. 1 and 2 to provide for an adjustment of the boot to accommodate different inclinations of the pipe (not shown) which leads from the furnace, and which latter pipe is connected to the collar 6 surrounding the opening 5 of the adjustable side 4.

It will be apparent from the foregoing that when the adjustable face 4 is pulled or forced outwardly from the boot, that the lower curved portion 9 and the side wings 10 maintain closures between the corresponding side edges of the adjustable face and the boot, so that products of combustion or heat units passing from the furnace to the stack or register box cannot escape.

In practice, the collar 3 of the boot is connected to the wall stack or register box, as the case may be, and the boot turned on the disk 2 to bring the collar 6 of the adjustable face into alinement with the opening in the furnace, and permit of the proper connection between the collar 6 and the furnace of the lead pipe from the latter. The proper pitch of the adjustable face 4 may be readily obtained to provide for a proper tight connection of the lead pipe with the collar 6 without the use of additional fittings, no matter where the furnace is located or what degree of pitch is required.

What is claimed is:—

1. A furnace pipe boot comprising a hollow body open at one side and also having an opening in its top, a disk rotatably mounted in said opening, said disk being provided with an opening, a collar surrounding the opening of the disk, a face plate hingedly connected to said open side of the hollow body and having wings for projection into the body, said



plate having an opening, a collar surrounding the opening in the plate, the openings in the plate and disk permitting the smoke to pass through the hollow body.

5 2. A furnace pipe boot comprising a hollow body having one open side and an opening in its top, a disk mounted in said opening, a collar surrounding the opening in the disk, and a face plate hinged to the open side of the  
10 body and itself provided with an opening, a collar surrounding the opening in the plate, said openings in the plate and disk permitting the smoke to pass through the hollow body.

15 3. A furnace boot comprising a hollow body having one open side and an opening in its top, a disk mounted in said opening and itself provided with an opening, a collar surrounding the opening in the disk, a face plate hinged to the open side of the body, said face  
20 plate having an opening, and a collar surrounding the opening in the plate, said openings in the plate and disk permitting the smoke to pass through the hollow body, said face plate also having wings projecting into  
25 the hollow body.

4. A furnace pipe boot comprising a hollow body, a disk rotatably carried by said

body and provided with an opening, and a face plate hingedly connected to the body and provided with an opening whereby a pipe 30 may be connected to the disk and a pipe connected to the face plate without shifting the body, the openings in the disk and face plate permitting the smoke to pass through the hollow body. 35

5. A furnace pipe boot comprising a hollow body, a disk rotatably carried by said body and provided with an opening, and a face plate hingedly connected to the body and provided with an opening, said face 40 plate having projections projecting into said body whereby a pipe may be connected to the disk and a pipe connected to the face plate without shifting the body, said openings in the disk and face plate permitting the 45 smoke to pass through the hollow body.

In testimony whereof I affix my signature in presence of witnesses.

HARRY B. EAGER.

Witnesses:

F. D. SMITH,

OTTO C. WALTSGOTT,

ANDREW N. HILDEBRAND