

E. C. RAMSEY.
STOVEPIPE COUPLING.

APPLICATION FILED FEB. 14, 1908. RENEWED MAY 3, 1909.

933,850.

Patented Sept. 14, 1909.

2 SHEETS—SHEET 1.

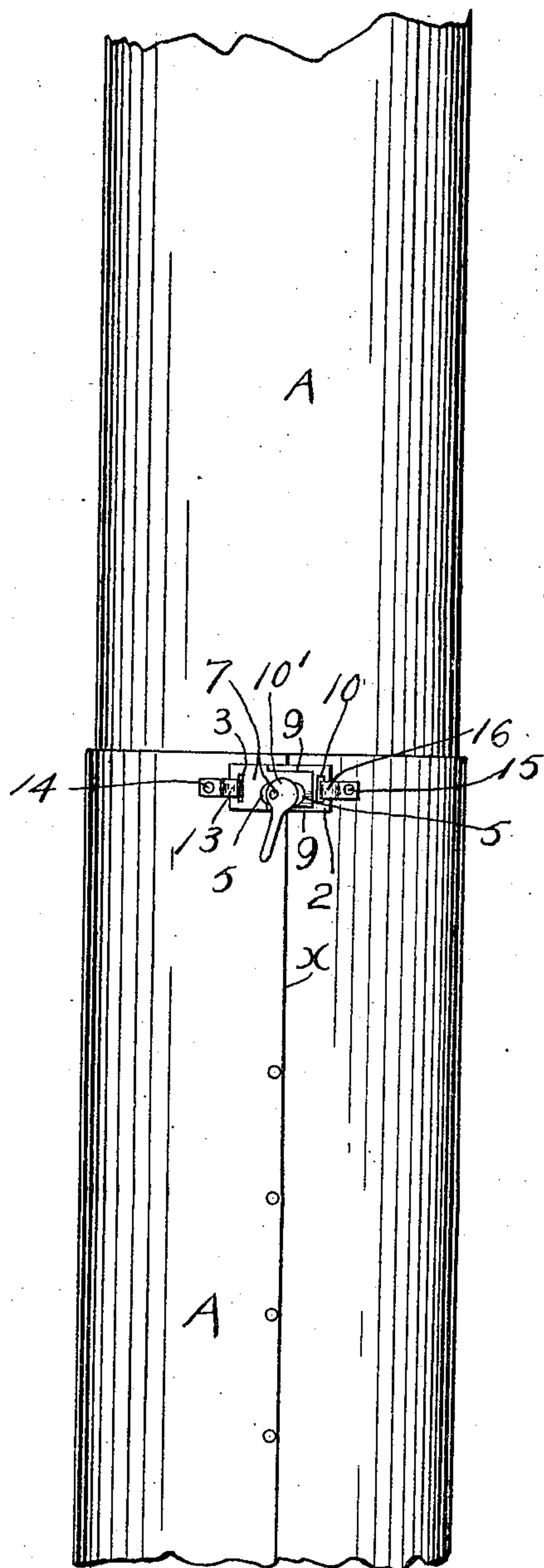


Fig. 1.

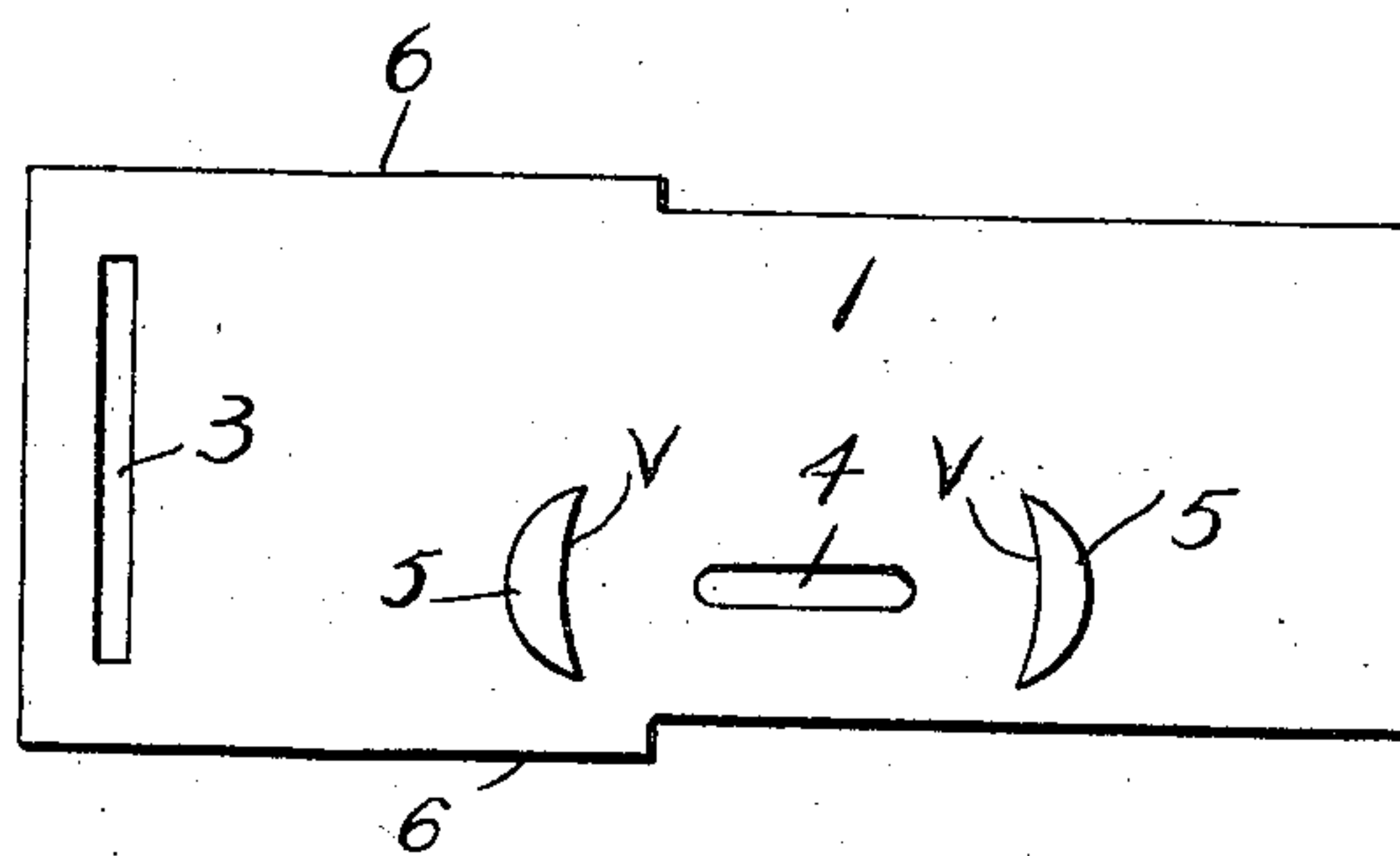


Fig. 2.

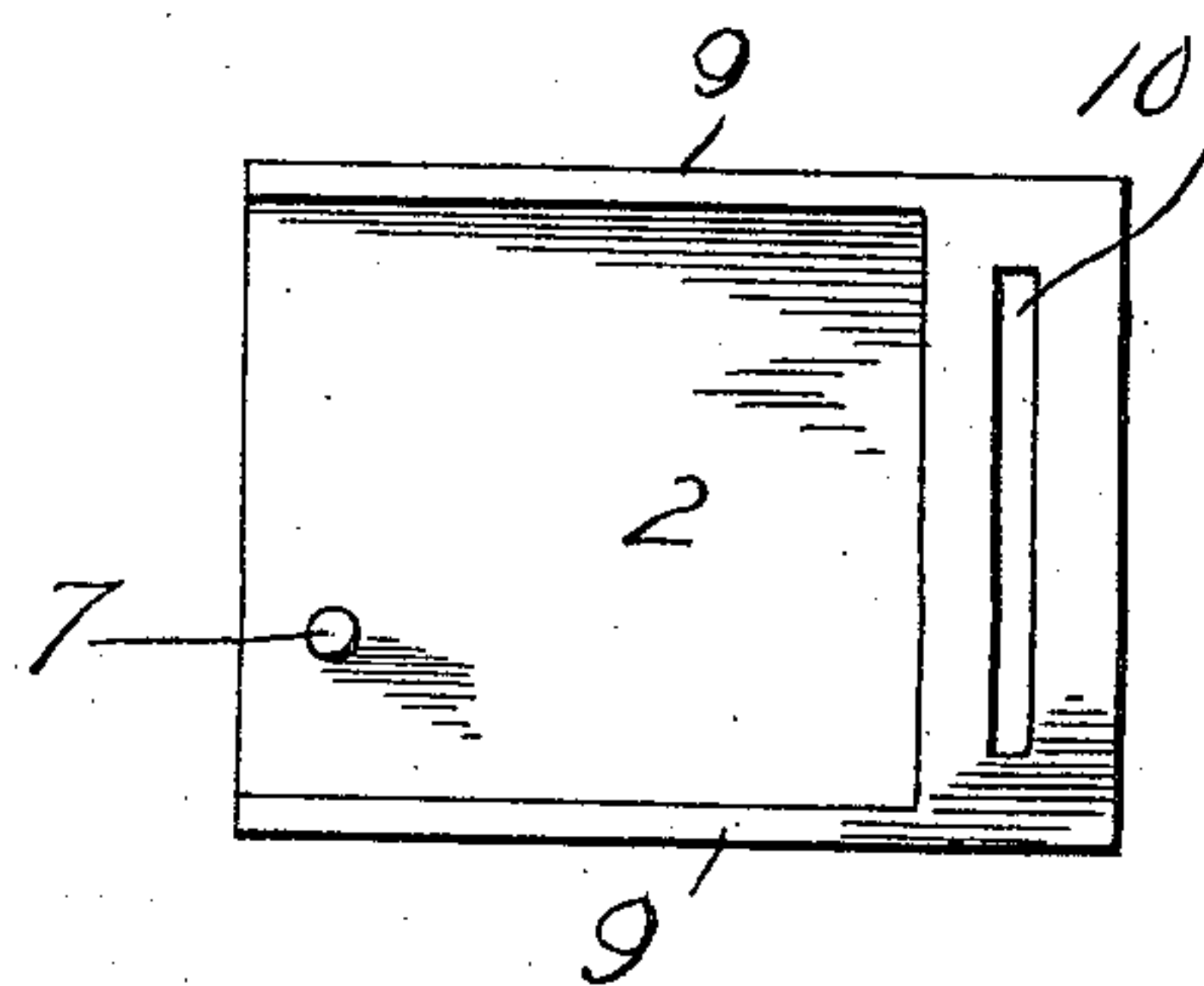


Fig. 3.

Witnesses
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2 SHEETS—SHEET 2.

Fig. 4.

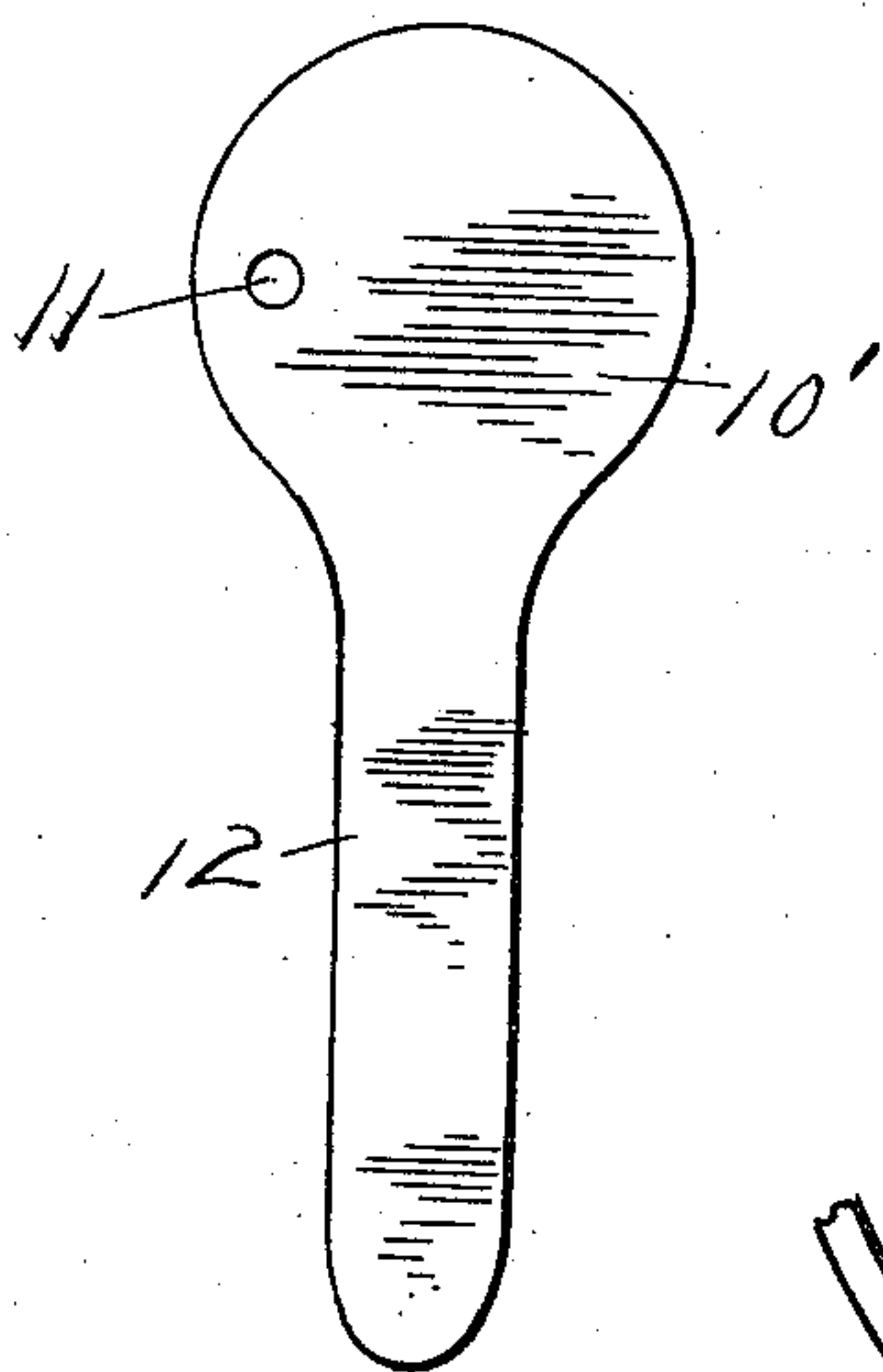


Fig. 5.

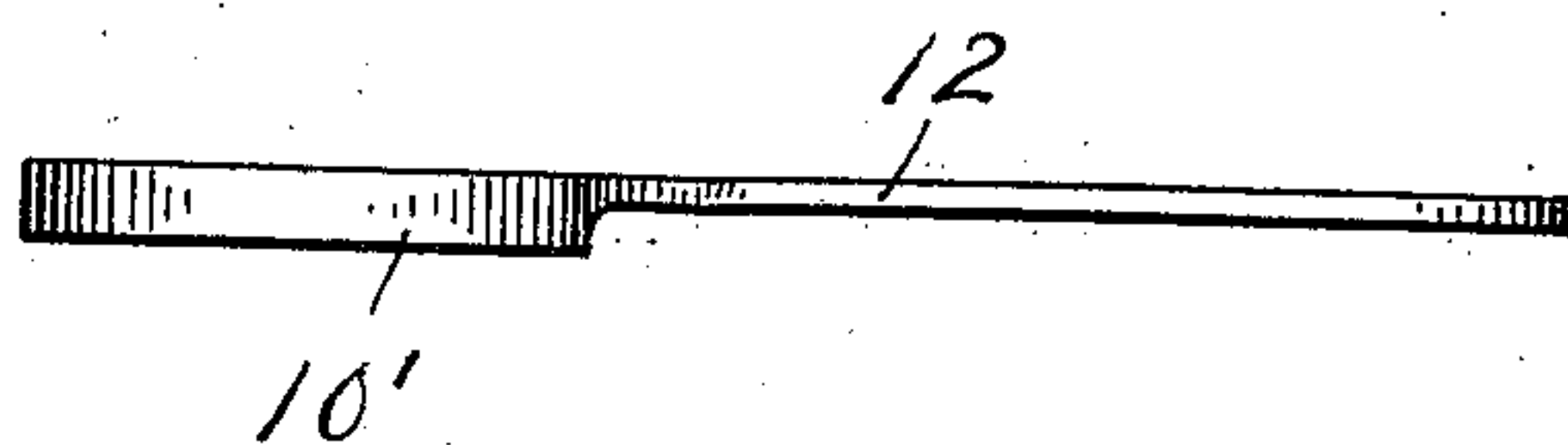


Fig. 6.

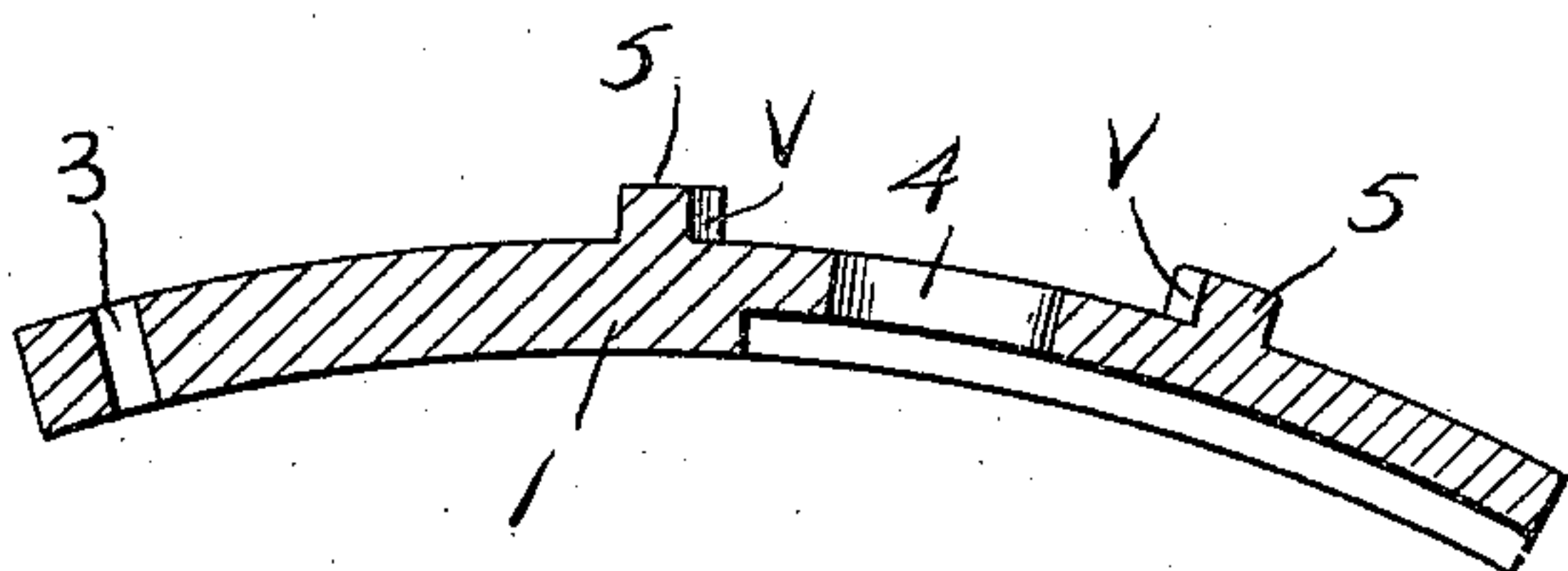
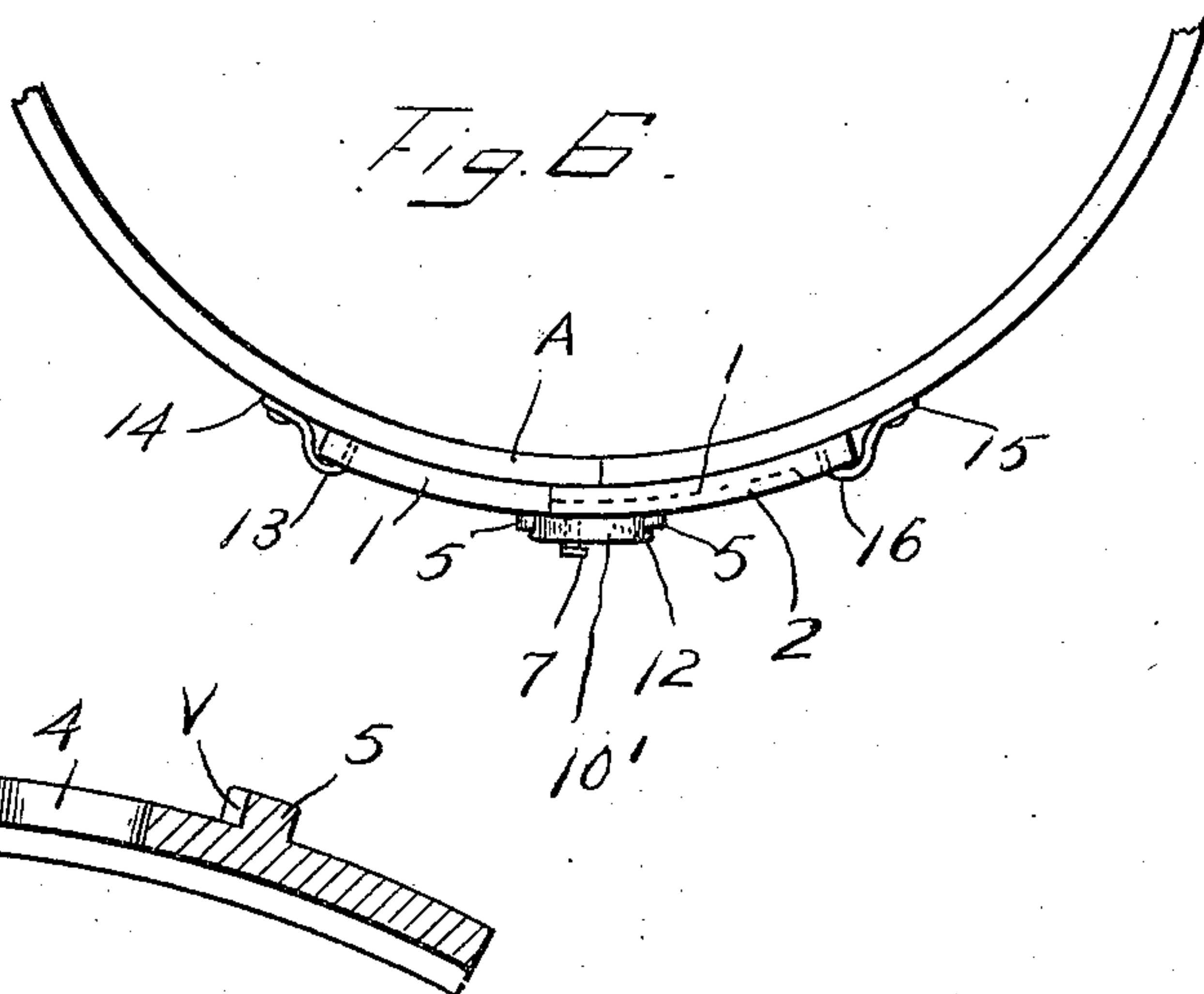


Fig. 7.

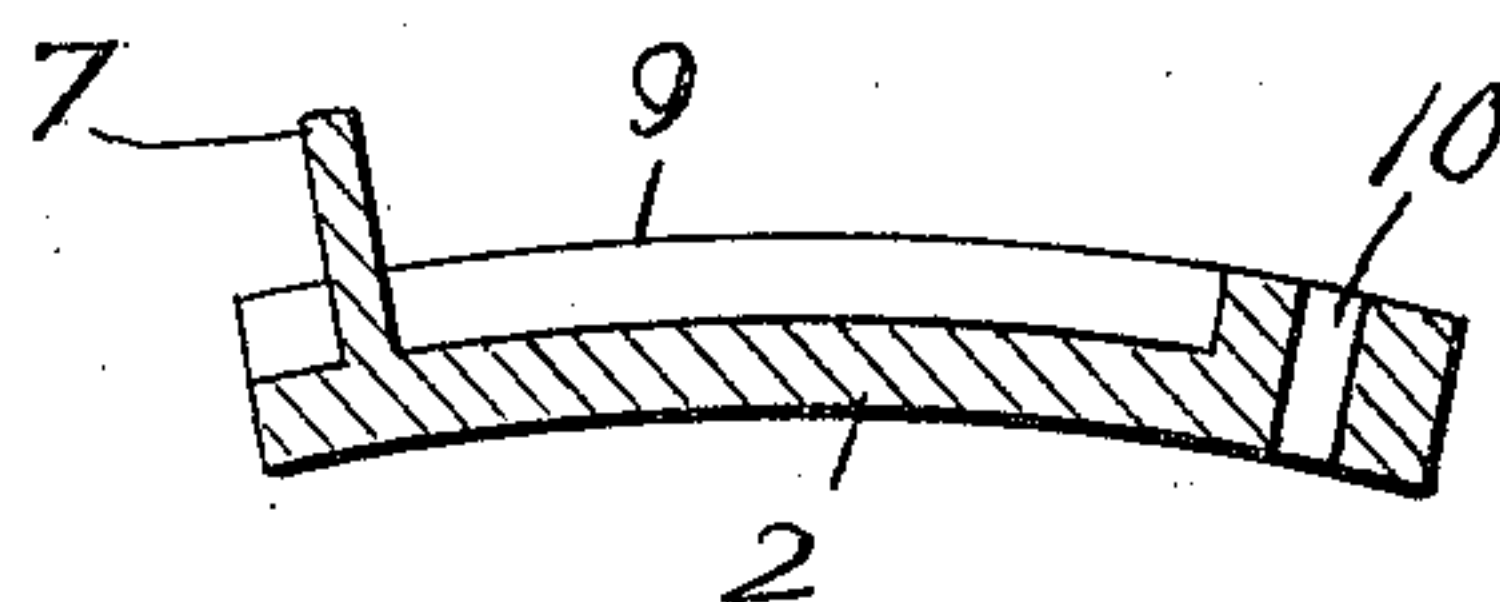


Fig. 8.

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UNITED STATES PATENT OFFICE.

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STOVEPIPE-COUPLING.

933,850.

Specification of Letters Patent. Patented Sept. 14, 1909.

Application filed February 14, 1908, Serial No. 415,956. Renewed May 3, 1909. Serial No. 493,714.

To all whom it may concern:

Be it known that I, EBENEZER C. RAMSEY, a citizen of the United States, residing at Warrensburg, in the county of Johnson, State of Missouri, have invented certain new and useful Improvements in Stovepipe-Couplings; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a new and useful improvement in stove pipe couplings, in which the factors of simplicity of design and durability of construction have been kept in view, the object being to provide a coupling adapted to be used in connection with cylindrical ended stove pipes, so that the slotted intake ends of the pipe may be adjusted as well as securely clamped upon the end of an adjacent connected pipe section.

In the accompanying drawings I have shown in Figure 1 an elevation of a stove pipe provided with an improved coupling. Fig. 2 shows a face view of the slotted coupling plate. Fig. 3 shows a face view of the pin provided coupling plate. Fig. 4 shows a face view of the cam lever. Fig. 5 discloses an edge view of the lever. Fig. 6 shows an edge view of the coupling plates. Fig. 7 is a central sectional view of the slotted plate, and Fig. 8 a central sectional view of the pin provided plate.

Referring by letter to the drawings, A represents a cylindrical stove pipe section with a portion of the seam at one end at x unriveted or unfastened, so that the diameter of the pipe will be reduced when pressure is applied. Secured proximal to the unsecured end of the pipe and upon opposite sides of the unsecured portion x , are the metallic straps 13 and 16 secured by means of the rivets 14 and 15.

The locking mechanism as used in my invention comprises two plates. The coupling plate 1 as shown in Fig. 2 is provided with the edges 6, 6, which skirt the sides of this plate but half its length, this plate being provided with the transverse slot 3, through which the strap 13 passes, in securing this plate to the pipe. Near the opposite end this coupling plate 1, is provided with the longitudinal slot 4, while near each end of

this lot 4, are positioned the crescent shaped lugs 5, 5, having inner bearing surfaces v .

In conjunction with the coupling plate 1, I use a second coupling plate 2 provided with the edge flanges 9, 9, and the transverse slot 10 through which the securing strap 16 passes in fastening this coupling plate to the stove plate A. At the end opposite the slot 10 this plate 2 is provided with the projecting pin 7, adapted to be slidably held within the slot 4. Revolvably mounted upon this pin 7, is a cam lever 12, having a cam head in the form of a disk 10', provided with a pin opening 11 eccentrically positioned within this disk.

As shown in Fig. 5, the handle 12 is much thinner than the head 10' so that this handle 12 will work over the crescent shaped lugs 5.

When my coupling has been properly connected, the disk 10' freely rotates between the bearing lugs 5, the inner surfaces v being complementary to the disk 10'. As the cam disk 10' is prevented from moving off of the pin 7, in that the end of this pin is upset or flanged, this disk 10' may be rotated to draw the coupling plates toward one another in decreasing the diameter of the pipe end, while in reversing the disk the pipe may be expanded at its receiving end. By this means each pipe section may be securely fastened to an adjacent pipe section in such a manner that the pipes will telescope one upon another. This arrangement permits a system of stove pipe sections being adjustably secured at any desired length without resorting to any cutting of the pipes.

It is of course understood that the slit may have any desired dimensions to permit a proper adjustment at the clamping end of the pipe.

From this it will be seen that the disk acts as a cam, in that it is carried eccentrically upon the pin 7, and that each plate has a curved undersurface, and a bowed upper surface. And

Having thus described my said invention, what I claim is—

1. The combination with a cylindrical stove pipe section provided with a seam unsecured at one end, of a coupling plate secured to said pipe adjacent to said unsecured seam and having a slot extending horizontally thereof and with two projecting

guide lugs, a second coupling plate secured to said pipe section opposite said first mentioned plate, a pin carried by said second plate and projecting through said slot, and
5 a cam lever carried upon said pin and operating between the lugs, whereby the diameter of the pipe may be reduced by the operation of the cam.

2. The combination with a cylindrical
10 stove pipe section provided with a seam unsecured at one end, straps secured to said pipe section upon opposite sides of said unsecured portion, a coupling plate having a curved under surface and a like upper sur-
15 face and secured to one of said straps, said

plate having a longitudinal slot and a guiding lug near each end of said slot, a second coupling plate having a curved under surface and a projecting pin, said second coupling plate being secured to said remaining 20 strap and said pin passing through said slot, and a lever having a cam disk carried eccentrically upon said pin and working between said lugs.

In testimony whereof, I affix my signature, in presence of two witnesses. 25

EBENEZER C. RAMSEY.

Witnesses:

T. HYATT,

SAMUEL I. MAJOR.