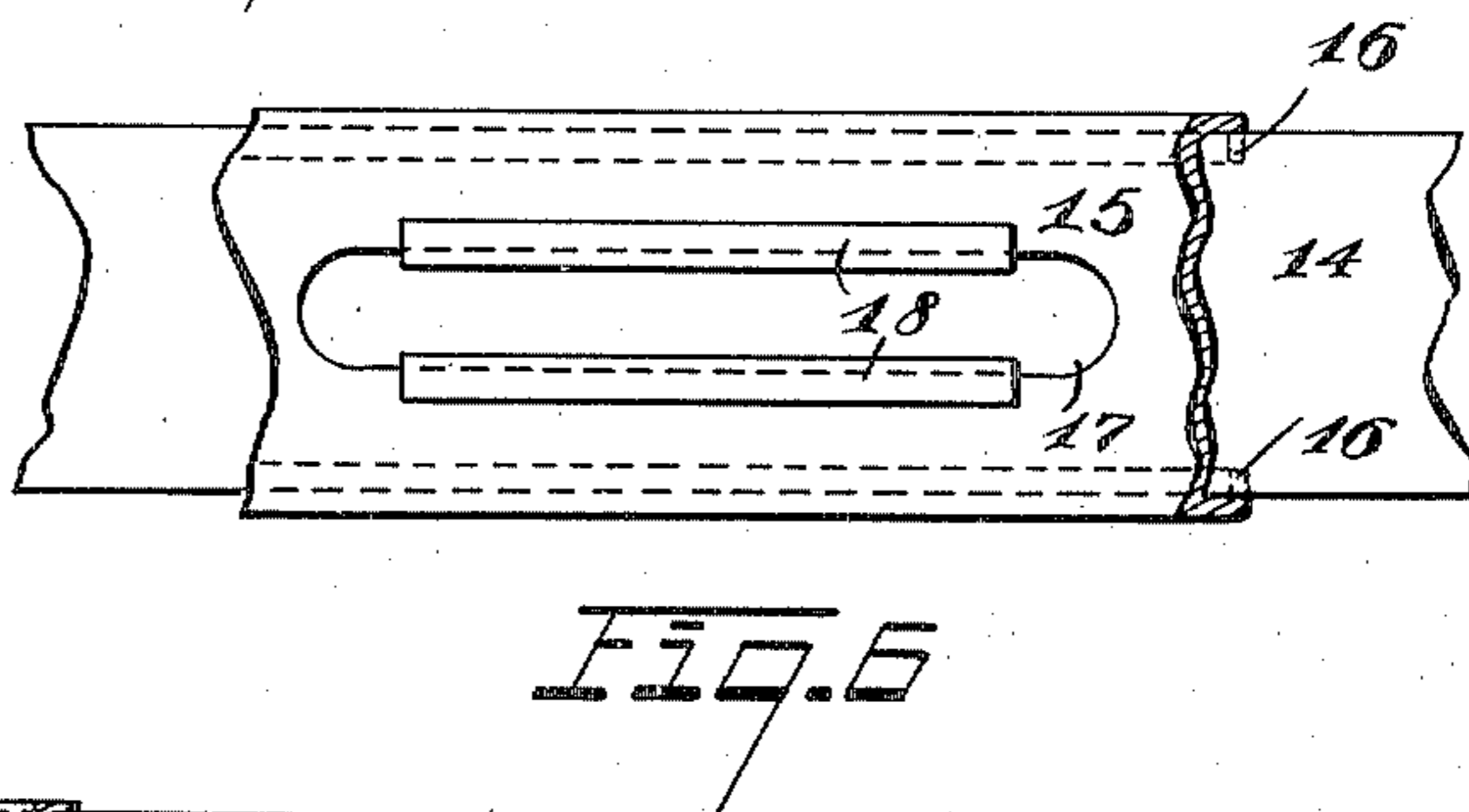
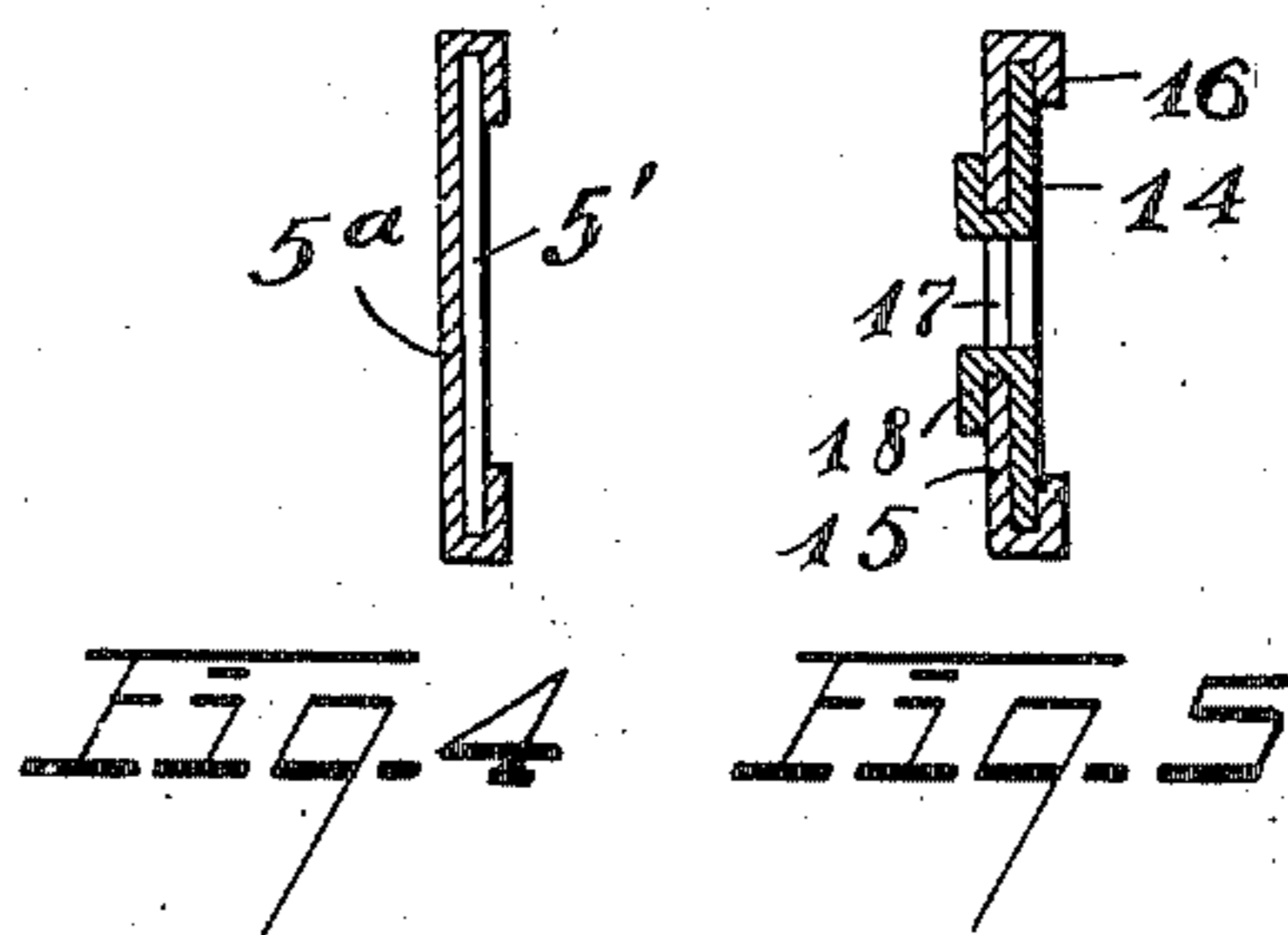
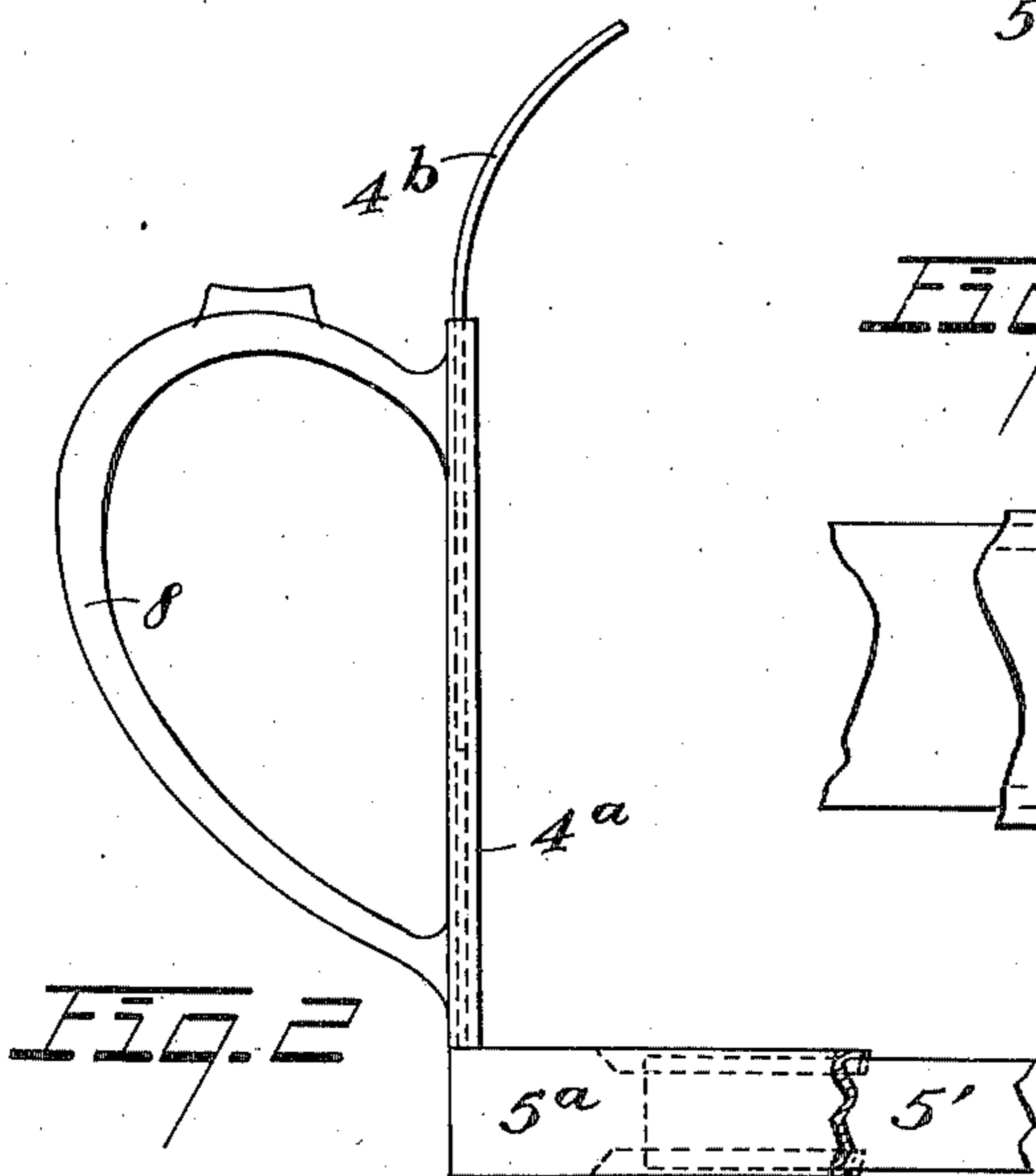
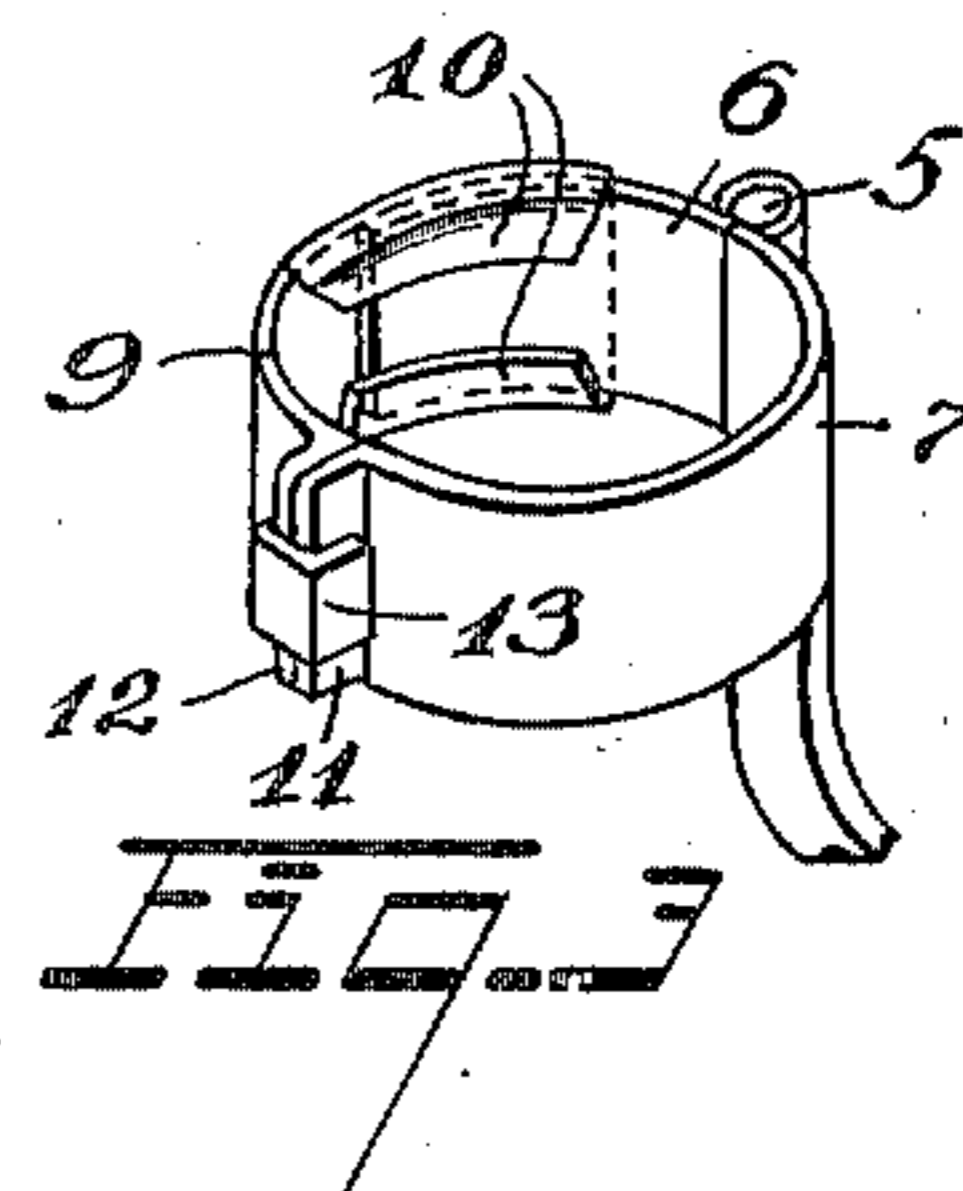
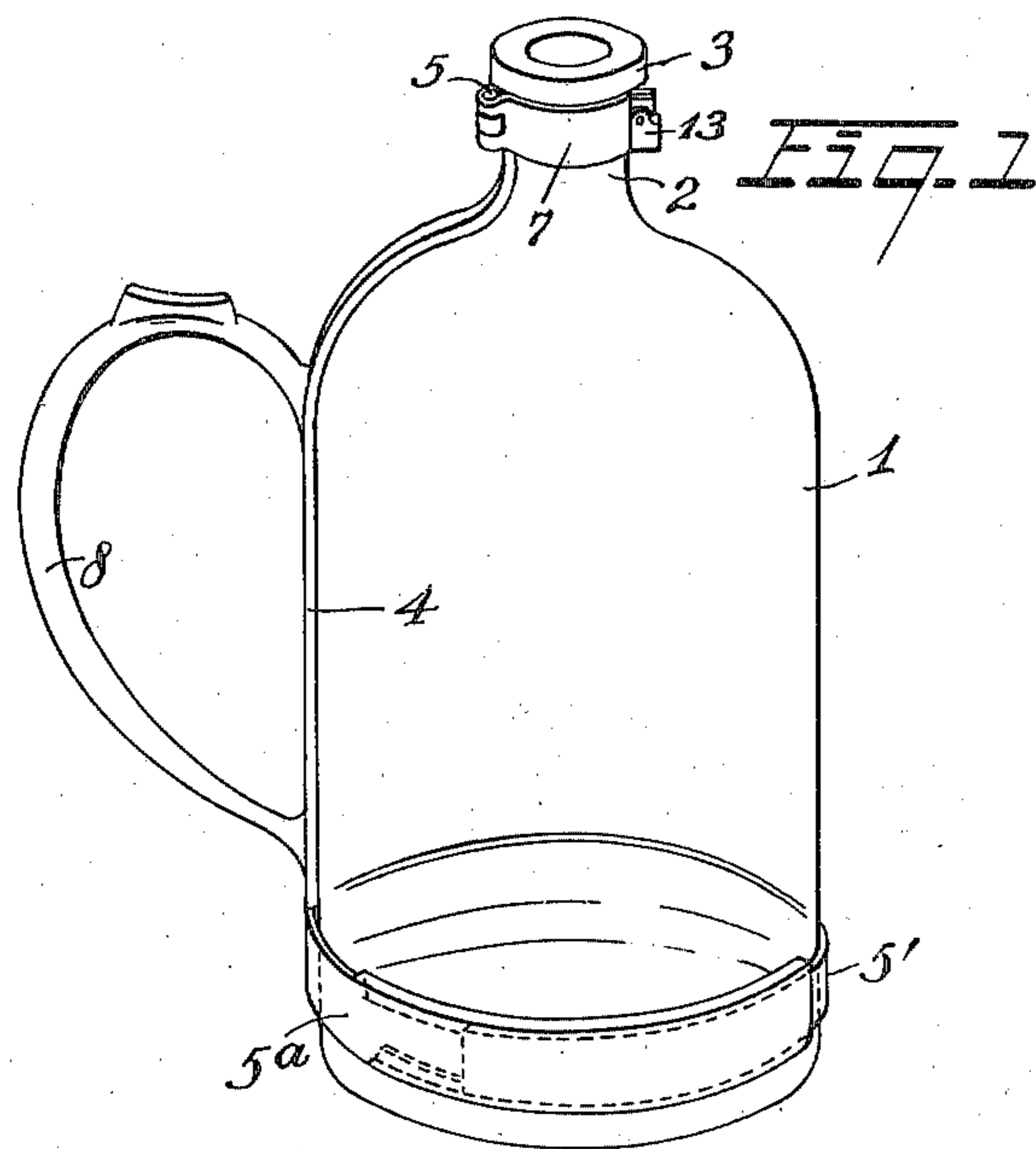


T. HOLZ.  
BOTTLE HANDLING DEVICE.  
APPLICATION FILED JULY 2, 1909.

965,629.

Patented July 26, 1910.



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# UNITED STATES PATENT OFFICE.

THEODOR HOLZ, OF CLEVELAND, OHIO, ASSIGNOR TO THE HOLZ MANUFACTURING COMPANY, A CORPORATION OF OHIO.

## BOTTLE-HANDLING DEVICE.

965,629.

Specification of Letters Patent.

Patented July 26, 1910.

Application filed July 2, 1909. Serial No. 505,577.

*To all whom it may concern:*

Be it known that I, THEODOR HOLZ, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in Bottle-Handling Devices, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

My invention relates to a device for holding and handling bottles or similar receptacles, and more specifically provides a detachable handling device which when used with a bottle engages with and supports the bottle at two points usually at the neck and at some portion of the body, preferably near the lower part thereof.

My invention aims to provide a handling device which is strong in construction, composed of few parts and one which will not obscure the contents of the bottle but permit the examination of the contents through the glass at all times.

Furthermore, the construction provides a handling device which is cheap in construction, yet ornate in its appearance.

Generally speaking, the invention comprises the elements and combinations thereof set forth in the accompanying claims.

Reference should be had to the accompanying drawings forming a part of this specification, in which—

Figure 1 shows a bottle having associated therewith my handling device; Fig. 2 is a side elevation of a portion of the handling device; Fig. 3 is a perspective view showing the upper part of the handling device which engages the neck of the bottle; Fig. 4 is a sectional view of the strap encircling the lower part of the bottle; Fig. 5 is a sectional detail of a modified form of the strap upon the handling device and Fig. 6 is an elevation of a modified form of strap used in connection with my handling device.

In Fig. 1, a bottle of conventional shape is represented at 1, the upper portion of the bottle being provided with a neck 2, which has an outwardly extending flange 3.

Encircling the lower portion of the body of the bottle is a looped member or strap, which is secured to a back member 4, the back member and strap being secured together in any desired manner. The upper

portion of the back member 4 is curved to conform to the general shape or contour of the upper portion of the bottle.

Secured to the upper portion of the member 4 is a hinge pin 5 which is usually formed integral with the member 4 although not necessarily so. Upon this hinge pin are pivoted two straps 6 and 7 which are of rounded contour, adapted to form a band for the engagement of the neck of the bottles. To the back member 4 is secured a handle 8, which is mounted at two points thereon. This handle as will be obvious, is adapted to be grasped by the hand of the user. The strap member 6 coöperates with another curved strap member 9, which is provided with inturned flanges 10, the same being turned in a manner to overlap and engage with the strap 6, which will permit the members 6 and 9 to be moved relatively to each other for the purpose of lengthening or shortening the effective length of the combined straps. The adjustment of the straps 6 and 9 and the strap 7 provides an adjustable collar to engage the neck of the bottle.

The strap 9 as well as the strap 7 at one end thereof are provided with flanges 11 and 12, which are adapted to lie parallel with each other and in engagement with each other when the straps are in position around the neck of the bottle. Upon one of the lugs 11 or 12 is pivoted a dog 13, which is formed with flanges, the space between which is just equal to the combined width of the lugs 11 and 12. The dog drops by gravity into position so that normally the lugs 11 and 12 are held against separation by the dog 13, as illustrated in Fig. 3.

The band or strap which engages the lower part of the bottle is likewise composed of two parts which have a sliding engagement with each other in a manner similar to that described in connection with the upper collar. That is, a strap 5' lies parallel with and in engagement with a strap 5<sup>a</sup>. This strap is provided with flanges which overlap and engage with the strap 5', in a manner similar to that shown in Fig. 3. It will thus be apparent that the lower strap and the upper strap which engage the bottle are capable of adjustment so that variations in the size of the bottle as well as in the

neck of the bottle may be accommodated by the adjustment of the bands which form the straps.

The portions of the strap which are in engagement are of sufficient length so that the friction between the straps will prevent their slipping, also the rounded character of the bands provides a construction which increases the friction between the parts and actual experience proves that this friction is sufficient to prevent the straps pulling away from each other.

In Figs. 5 and 6, I have shown a modified form which the cooperating bands may assume, the band 14 being a strap band having parallel edges, while the band 15 is provided with an inturned flange 16 that laps around and engages with the surface of the band 14. Through the band 15 is a slot 17, and a corresponding slot is cut through the band 14, the severed portions of the band 14 being lapped around the upper part of the strap 15 as indicated at 18 in Fig. 5. In this way a double frictional engagement is secured, which provides a very effective engagement between the two straps and prevents their slipping.

In Fig. 2 I have shown the back piece as adjustable, the adjustable parts being formed as previously explained, that is, by forming the back of two pieces 4<sup>a</sup> and 4<sup>b</sup>, one of the pieces being provided with flanges bent around the edges and into engagement of the other piece precisely as shown in Fig. 4. Of course it is possible to use the structure shown in Figs. 5 and 6.

In serving the contents of the bottle the handle 8 is grasped by the user and the subsequent tipping of the bottle will place the weight of the bottle and its contents upon the collar around the neck and upon the strap at the lower portion of the bottle.

The handling device is retained upon the bottle until the clasp which holds the two

parts of the collar around the neck of the bottle is opened. The band at the upper part of the bottle is retained in place by the flange 3 upon the bottle.

Having thus described my invention, what I claim is:

1. A bottle handling device comprising a handle, two bands extending from said handle in opposite directions and adapted to encircle the body of the bottle at the lower part thereof, one of said bands being formed with flanges which overlap and engage with the other band, a second member extending from the said handle and engaging the bottle at the upper part thereof.

2. A bottle handling device comprising a handle, a member extending from the upper portion of said handle and encircling the bottle at the upper part thereof, said member comprising two bands which are pivotally joined together, another band cooperating with one of the first mentioned bands, said band being provided with inturned flanges which engage one of the first mentioned bands, means for holding the bands from swinging about the pivot, a second member extending from the lower portion of the handle and encircling the bottle at the lower part thereof.

3. A bottle handling device, comprising a back member formed of two pieces which are adjustable with respect to each other, a collar carried by one of the back members for engaging the neck of the bottle, and a band secured to one of the back members, said band being adapted to engage the body of the bottle below the center and above the bottom thereof.

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

THEODOR HOLZ.

Witnesses:

J. B. HULL,  
A. J. HUDSON.