

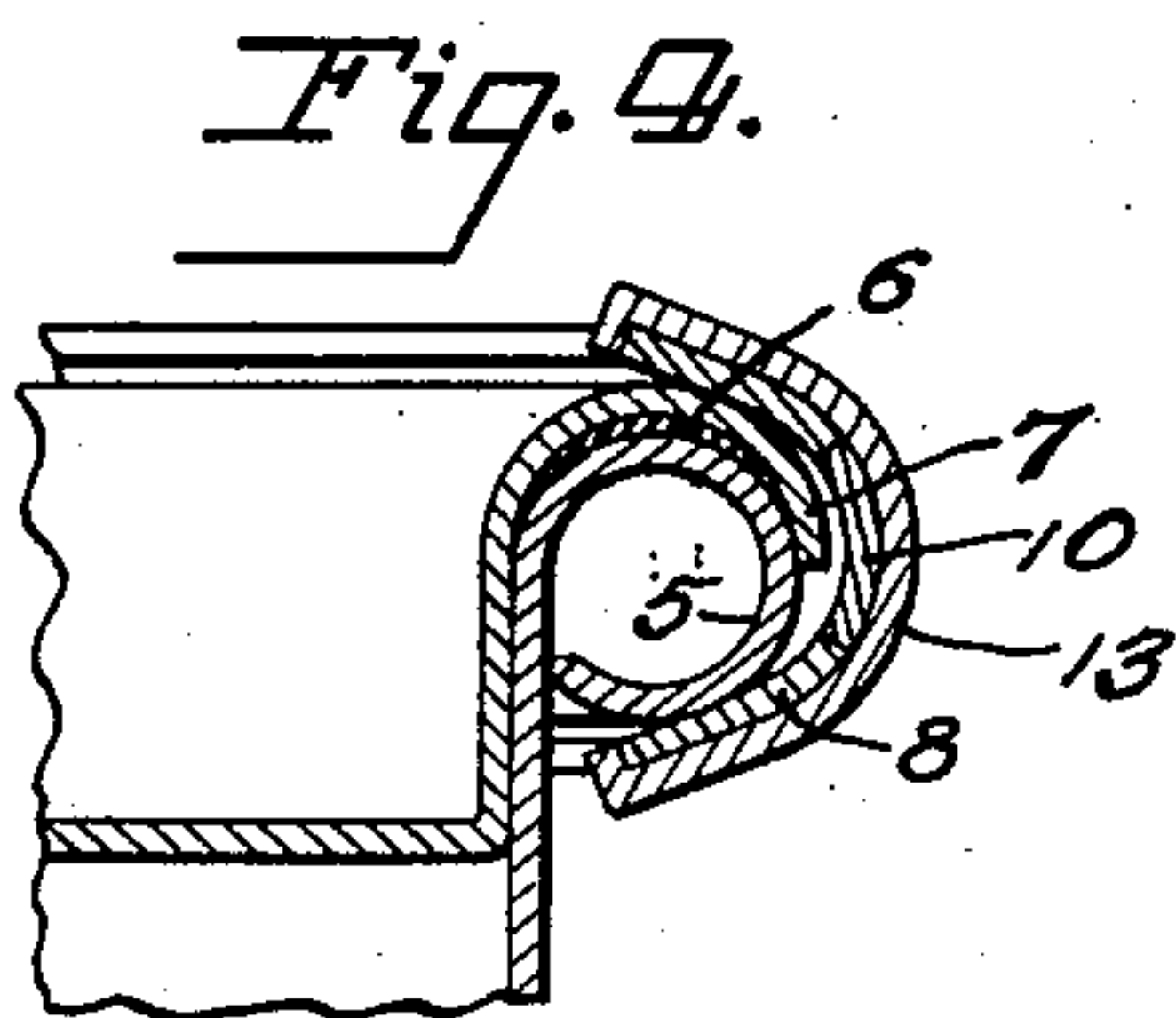
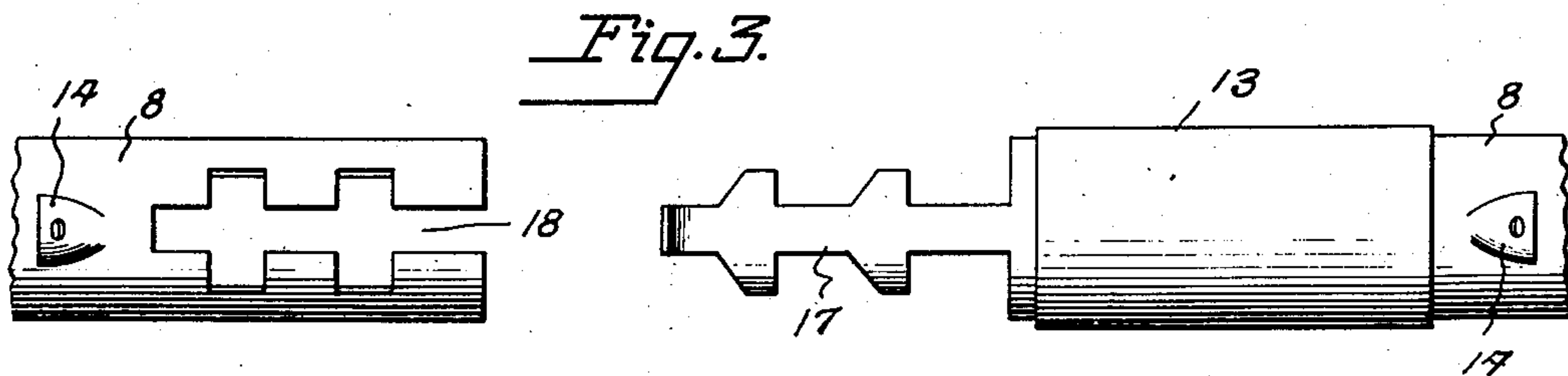
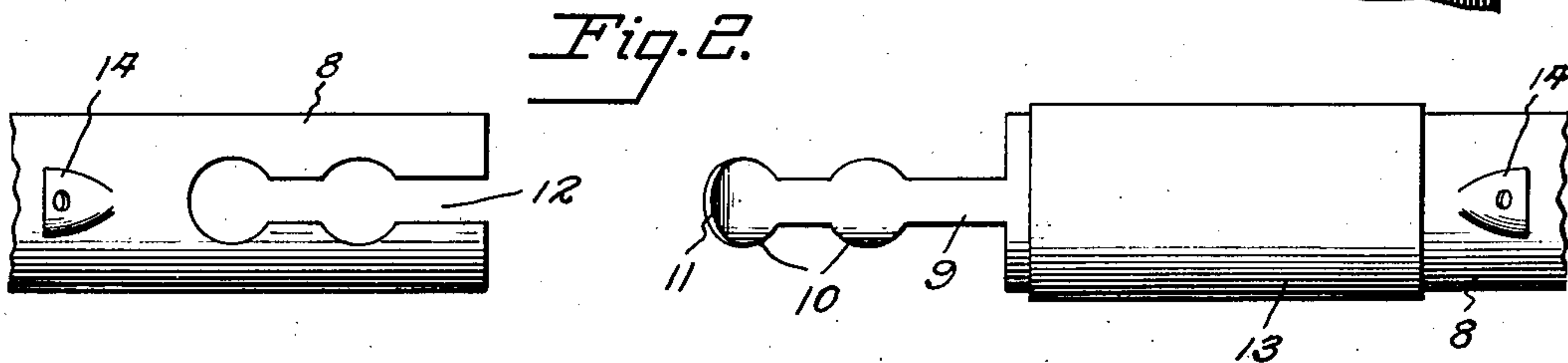
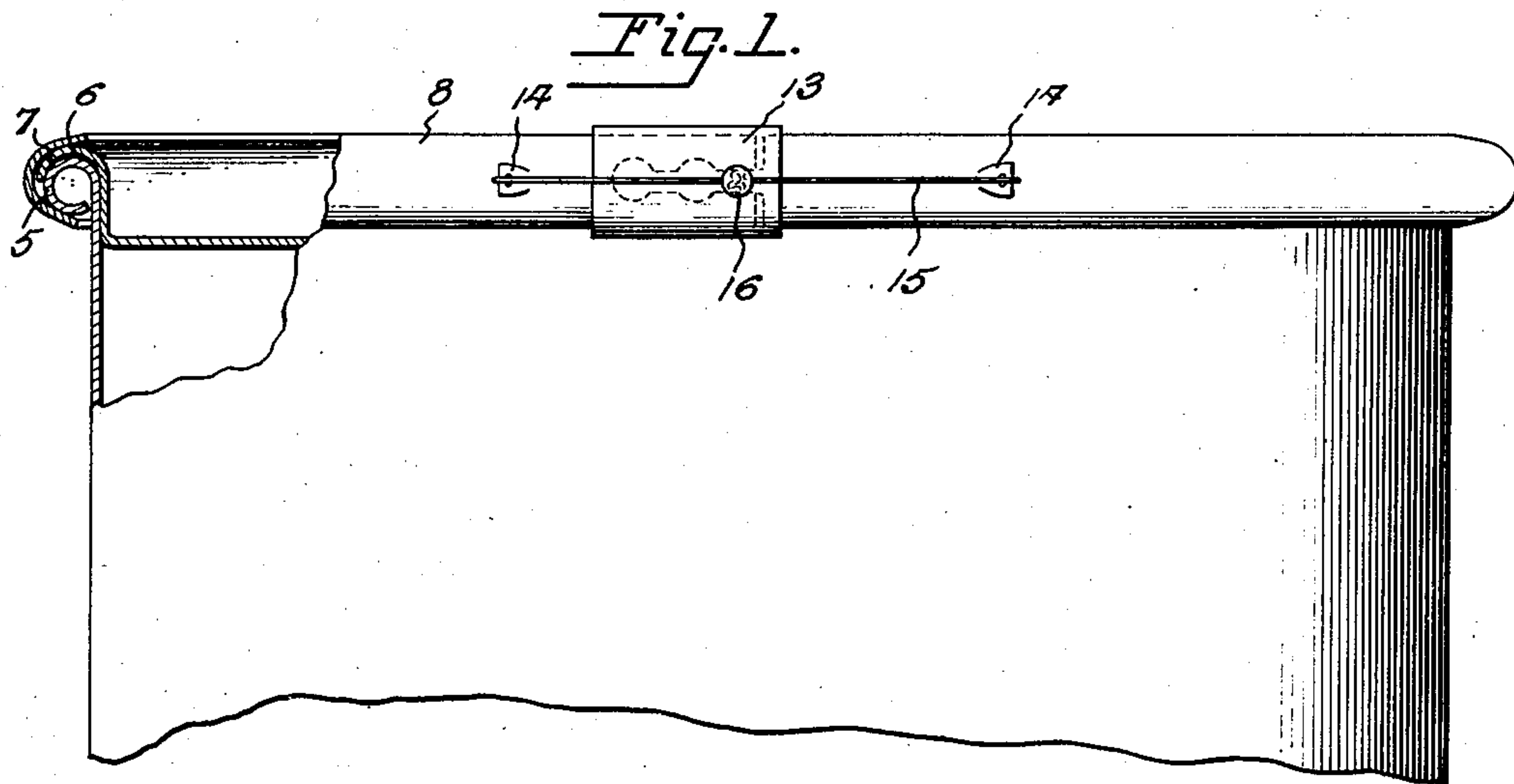
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MEANS FOR SECURING REMOVABLE BARREL HEADS

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## UNITED STATES PATENT OFFICE

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MEANS FOR SECURING REMOVABLE  
BARREL HEADS

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5 Claims. (Cl. 220—61)

The invention relates to receptacles of the type in which a removable head is retained in sealed relation by a split or contractible U-shape ring or keeper chime and it is concerned chiefly with the problem of coupling the ends of the chime.

All other devices for this purpose, with which I am familiar, are objectionable for a number of reasons. For example, they depend upon reverse bending or other distortion of a coupling or connection member which dependence makes for fatigue either immediate or eventual so that there is no assurance that the chime can be used with safety more than once. But, discounting that condition, they all suffer the disadvantage that they essentially embody parts or elements that are in marked offset relation with the barrel and, hence, constitute a decided menace in that they are likely to catch onto or foul something and so destroy or impair the efficiency of the seal.

One object of the invention is to provide a keeper chime which is not subject to conditions making for fatigue in service, and which, therefore, is useful over and over again without loss of efficiency. Another object is to provide a keeper chime free from fouling propensity. Another object is to provide a keeper chime having mated coupling members which operate in substantially flush relation. Another object is to provide means for shrouding the coupled parts and to accomplish this in such way as to preserve the smooth external continuity of the chime. Another object is to provide shrouding means in the form of a runner adapted to be positioned over the coupled area and effective to maintain the parts in the coupled state under substantially flush conditions. Another object is to provide means which function as abutments for devices for slidably contracting the chime, and as end-stops for the runner, and as holders for a wire for a signet to be applied to the runner as a telltale of tampering and pilfering.

The nature, characteristic features, and scope of the invention more readily will be understood from the following detailed description taken in connection with the accompanying drawing, forming a part hereof, wherein:—

Figure 1 is a sectional elevational view of a barrel or drum closure containing my improvements.

Fig. 2 is a view of the chime in uncoupled state. Fig. 3 is a modification.

Fig. 4 is a sectional detail showing the manner of mounting the runner.

In the drawing 5 represents the rolled rim portion of a barrel or drum, 6 the gasket supported

thereon, 7 the sealing flange of the head, and 8 the split channel or U-shape ring or keeper chime.

According to my invention one end of the keeper chime has a medial wall extension 9 which is marginally notched to provide spaced lateral tongues 10 and a forwardly projecting tongue 11. The lateral tongues are somewhat depressed and the frontal tongue is distinguished by an upward inclination. The other end of the chime is stamped out, as at 12, in coincidence with the construction stated. Otherwise expressed, it is a counterpart of the notched strap so that when the ring is contracted and the strap 9 is in overlying relation, its notched parts will enter the stamped out or keyhole slotted area and the engaging parts will occupy a substantially common plane. Under such conditions a runner 13 slidably mounted on the chime is free to be moved over the coupled parts and to engage and depress the front lock 11 and insure proper coupling of the parts. The runner is of sufficient length fully to cover the coupled area and, since it partakes of the contour of the chime, practically insures the smooth external continuity thereof so that there are no hazardous offsets or projections likely to catch onto something and impair or destroy the seal.

The lugs 14 are useful as abutments for the usual appliances for forcibly contracting the chime and as end-stops for the runner 13. They are also apertured for the passage of a wire 15, the ends of which may be secured by a signet seal 16 applied to the runner when in shrouding position, thus providing a telltale against tampering and pilfering.

In the modification, Fig. 3, the notched strap 17 cooperates with a counterpart notched slot 18 so that the parts are absolutely flush in the coupled state, being held against spreading by the runner.

Having described my invention, what I claim as new is:—

1. A keeper chime comprising a split ring of U-section, one end of the ring having a notched strap extension and the other end of the ring having a complementary slotted area to accurately receive the notched strap extension for locking the ends of the chime against separation, and a member slidably fitted on the chime and having a length commensurate with the interlocked area of the chime and movable to a position to overlie such interlocked area to prevent casual separation of the parts, said member being of minimum thickness to avoid obstructing projection beyond the surface of the chime.



2. A keeper chime comprising a split ring of U-section, an extension on one end of the chime having lateral and end projections, a notched area in the other end of the chime to receive and  
5 conform to the extension and projections, whereby to secure the ends of the chime together in substantially locked relation and without surface projection, a runner slidably interfitted with the chime and movable to a position to bear upon the  
10 extension when seated in the notched formation to maintain the parts in locked relation, and means carried by the extension for securing the runner in operative relation thereto.

3. A keeper chime comprising a split ring of  
15 U-section, a medial extension from one end of the chime, said extension having lateral and end projections, the end projection having a slight outward inclination, the other end of the chime being formed with a notched area shaped to  
20 accurately receive the extension and the projections thereof, with the end projection extending beyond the surface of the chime, and a runner

slidably engaged with the chime and movable to a position to overlie the extension when in interlocking relation, said runner depressing the outstanding terminal of the end projection to utilize the resiliency thereof as a means for holding the  
5 runner against casual displacement.

4. A construction as defined in claim 1, wherein the chime is formed with outstanding lugs to limit the movement of the runner in either direction, said lugs providing means to receive an  
10 implement to draw the ends of the chime together in seating the same in position for locking purposes.

5. A construction as defined in claim 1, wherein the chime near the ends thereof is provided with  
15 projections to limit the displacement of the runner, said projections being perforated to receive a sealing strip when the chime is in locked position to provide an effective tell-tale against  
20 tampering.

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