

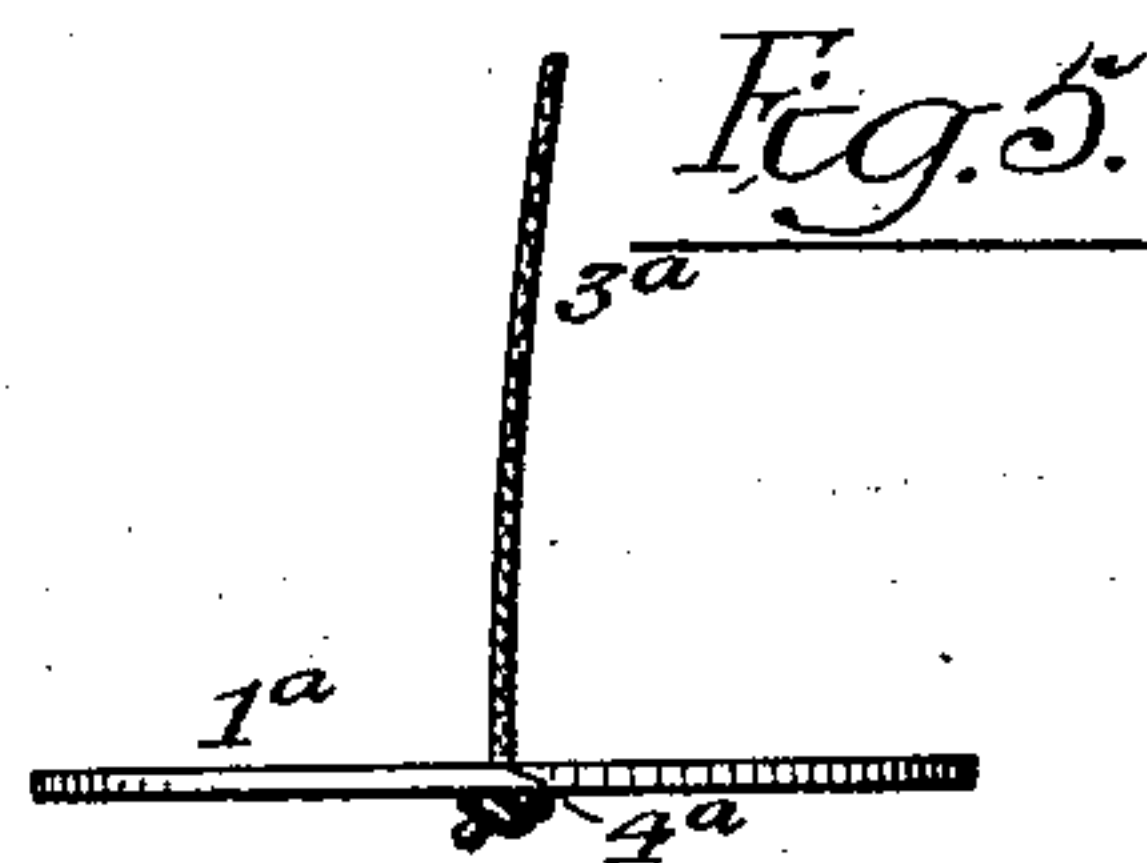
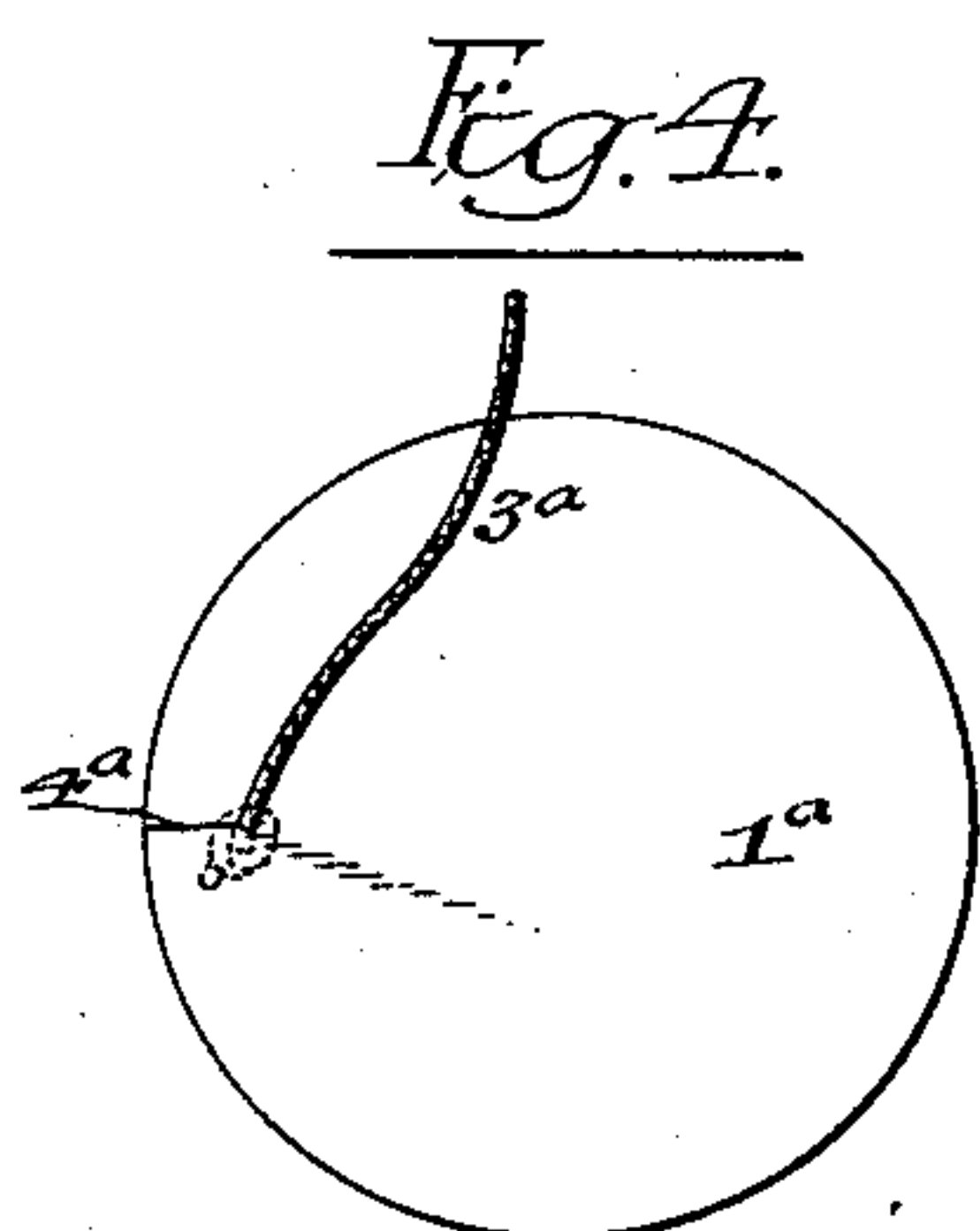
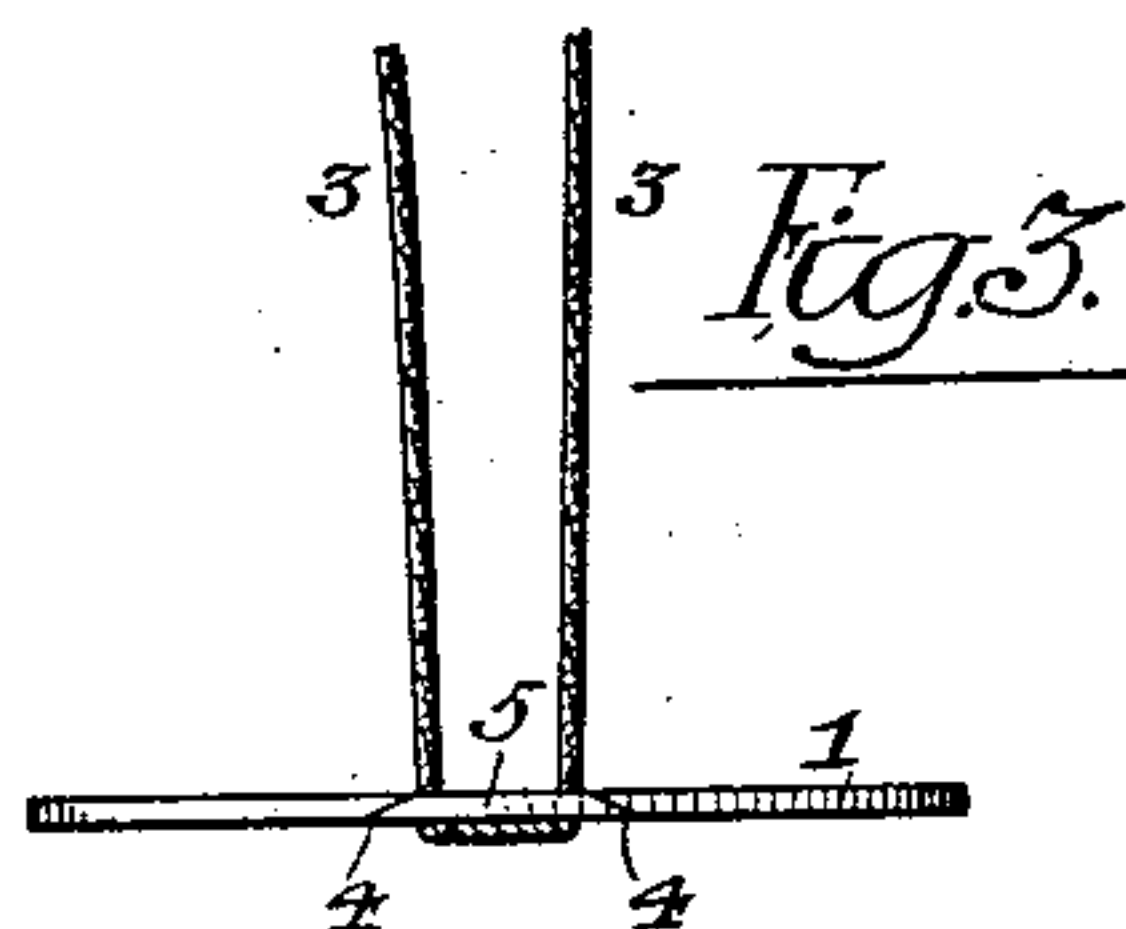
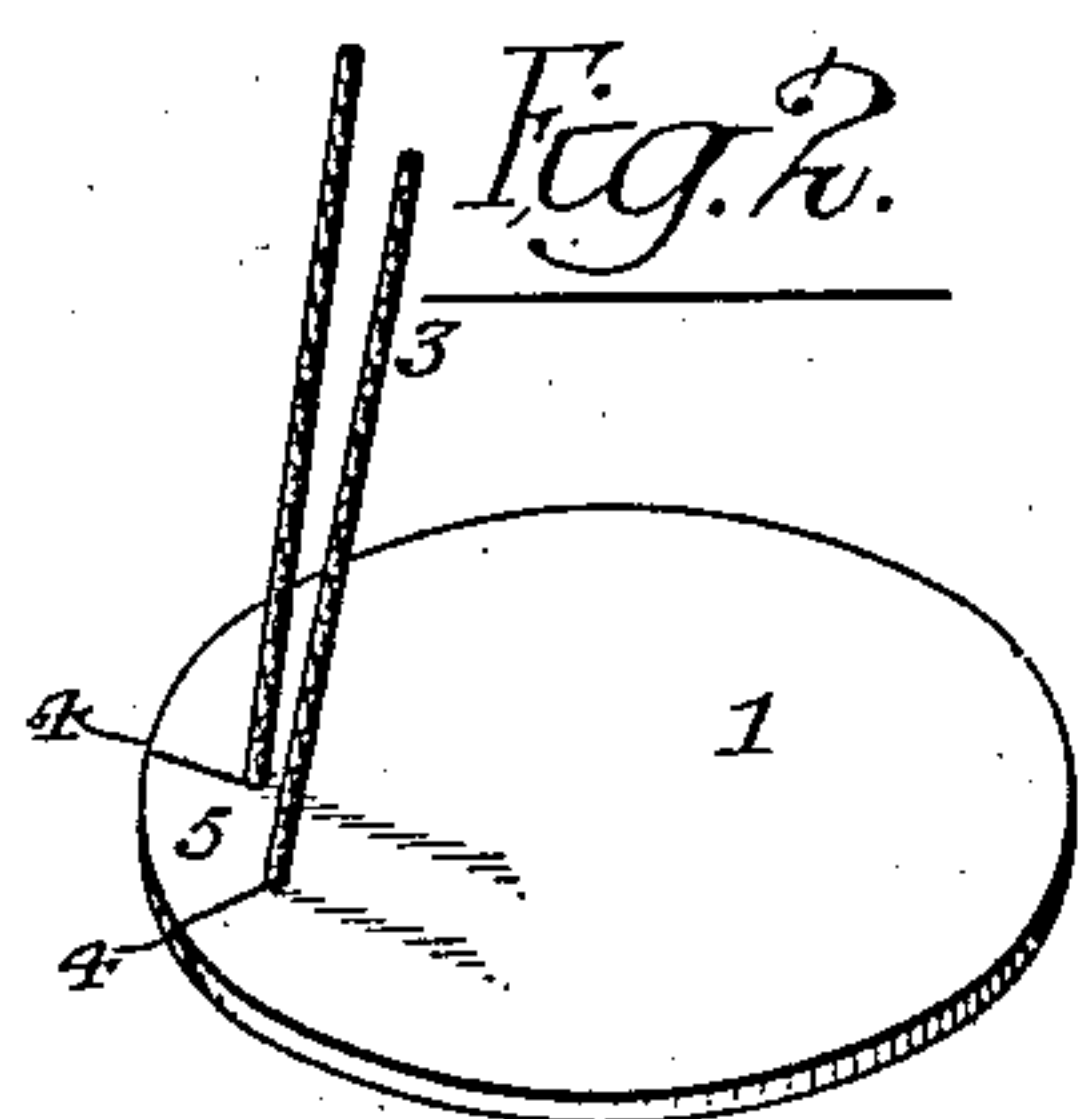
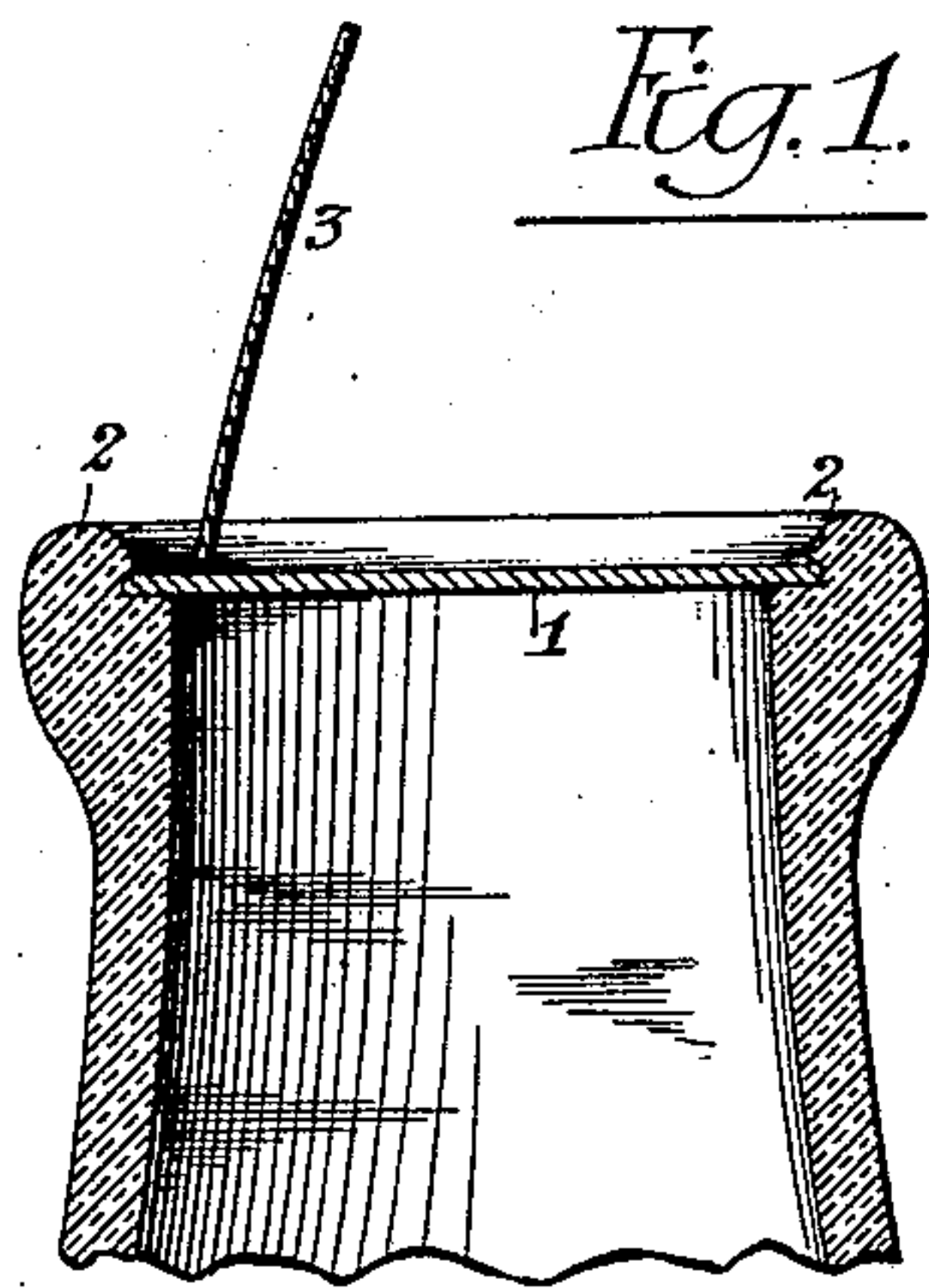
No. 710,347.

Patented Sept. 30, 1902.

F. TYSON.
CLOSURE FOR JARS OR BOTTLES.

(Application filed Apr. 21, 1902.)

(No Model.)



Witnesses:-

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CLOSURE FOR JARS OR BOTTLES.

SPECIFICATION forming part of Letters Patent No. 710,347, dated September 30, 1902.

Application filed April 21, 1902. Serial No. 103,988. (No model.)

To all whom it may concern:

Be it known that I, FRANK TYSON, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improve-
5 ments in Closures for Jars or Bottles, of which the following is a specification.

My invention relates to that class of jar or bottle closures which consist of disks of paper or other material confined to the mouth of
10 the jar or bottle by engagement with an inwardly-projecting shoulder around said mouth, the object of my invention being to provide such a closure with means whereby it can be readily removed.

15 In the accompanying drawings, Figure 1 is a sectional view of part of the mouth portion of a jar or bottle with closure therefor made in accordance with my invention. Fig. 2 is a perspective view of said closure. Fig. 3 is
20 an edge view of the same. Fig. 4 is a top view, and Fig. 5 is an edge view, of a closure embodying a modification of my invention.

The closure consists of a disk 1 of stiff paper, pasteboard, or other available material coated
25 with paraffin or otherwise treated, so as to render it waterproof, this disk resting upon a seat around the mouth of the jar or bottle and being retained in contact with said seat by engagement with an inwardly-projecting
30 shoulder 2, surrounding the mouth in the usual manner. In order to provide for the ready withdrawal of the disk from the mouth of the jar or bottle, I provide said disk with a looped cord 3, engaging with slots 4, extend-
35 ing inwardly from one edge of the disk, as shown in Fig. 2, the bight of the loop being on the inside of the disk and the free ends of the cord projecting to any desired extent above the top of the disk in order to afford a
40 good hold for the fingers. The slots 4 are beveled, as shown in Fig. 3, so that the tongue 5, produced by said slots, has a bearing along each side of the same upon the adjacent portions of the disk, whereby the strain exerted
45 by the cord 3 is not concentrated at the root of the tongue, but is distributed throughout the entire extent of said tongue. Hence the latter is not likely to be torn free from the disk when a pull is exerted upon the cord 3.
50 In order to increase the area of the tongue 5 and to prevent the accidental release of the

cord 3, the slots 4 are preferably inclined, as shown in Fig. 2, whereby said tongue is wider at the outer end than at the root.

By the term "cord" as used in the speci- 55 fication I intend to cover either a cord or strand of textile material or flexible wire or equivalent material, the fact that the cord is tightly compressed where it passes through the slots 4 permitting of the use of textile material 60 without any risk of leakage of the contents of the bottle or jar.

In some cases a single slot 4^a and a single cord 3^a, knotted at the inner end, as shown in Figs. 4 and 5, may be used in place of the 65 double slot and looped cord; but the latter is much to be preferred because of the better hold of the cord upon the disk.

I am aware that it has been proposed to provide a bottle-cork with a cord or wire pass- 70 ing diametrically across the bottom of the same and thence upwardly through slots formed in diametrically opposite sides of the cork, the projecting rear ends of said cord or wire being utilized as a means of extracting 75 the cork from the bottle; but in such case the cork must be pulled bodily from the bottle-neck, whereas the pull-cord in my stopper engages the same near one edge, which edge is first loosened when there is a pull upon the 80 cord. Hence the stopper can be released more readily than if a direct central pull upon the same were exerted, which would be resisted by the entire bearing of the disk against the shoulder around the jar-mouth. 85

I am aware also that a metallic strip or tape has been connected near one edge in a flat disk of material constituting a jar or bottle closure, and I therefore do not claim this idea, 90 broadly, my invention being intended to provide the disk with an extracting device of the simplest and most inexpensive character and to combine the same with the disk in such a way as not to add materially to the low price at which closures of this character are neces- 95 sarily sold.

Having thus described my invention, I claim and desire to secure by Letters Patent—

1. A jar or bottle closure consisting of a 100 disk having one or more slits extending inwardly from the edge of the disk at one side of

the same, and a compressible cord passing through the slitted portion of the disk and having its bearing on the under side of the same at the inner end of the slit or slits and adjacent to the edge of the disk, substantially as specified.

2. A jar or bottle closure consisting of a disk having two slits extending inwardly from the edge of the disk at one side of the same, and a compressible looped cord passing through said slits, the bight of the cord bearing on the under side of the disk at the inner end of the tongue formed by the slits and adjacent to the edge of the disk, substantially as specified.

3. A jar or bottle closure consisting of a disk having two slits extending inwardly from the edge of the disk at one side of the same and converging from the edge of the disk so as to form a tongue narrowing toward its base,

and a looped cord passing through said slits, the bight of the cord bearing on the under side of the disk at the inner end of the tongue formed by the slits and adjacent to the edge of the disk, substantially as specified.

4. A jar or bottle closure consisting of a disk having one or more slits extending inwardly from the edge of the same, and beveled so that one wall of the slit overlaps the other, and a cord passing through the slit and having on the under side of the disk a bearing upon the underlapping portion of the same, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FRANK TYSON.

Witnesses:

F. E. BECHTOLD,
JOS. H. KLEIN.