

(No Model.)

J. B. NEUENDORFF.
BOTTLE STOPPER.

No. 598,952.

Patented Feb. 15, 1898.

Fig. 1.

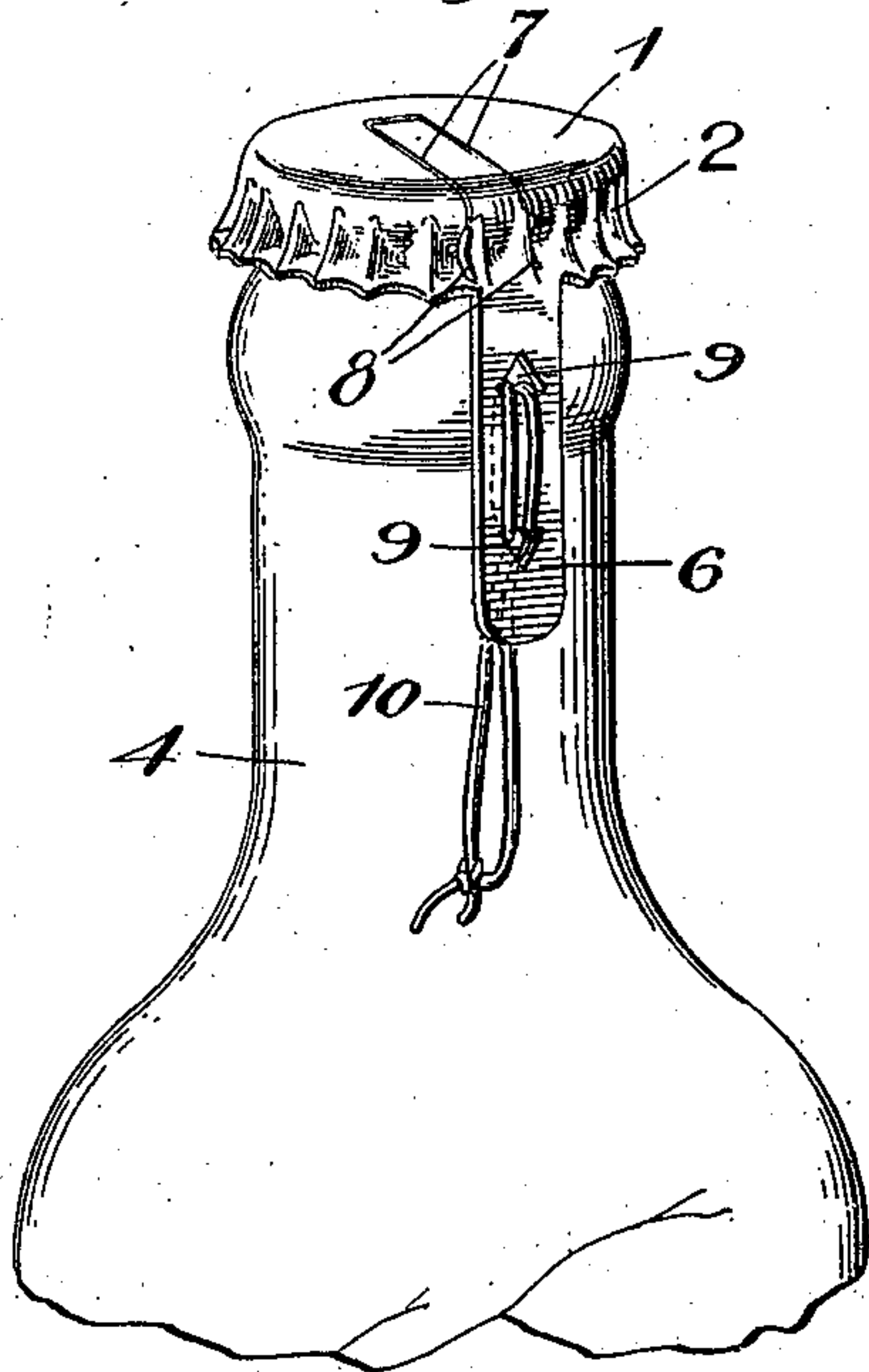


Fig. 2.

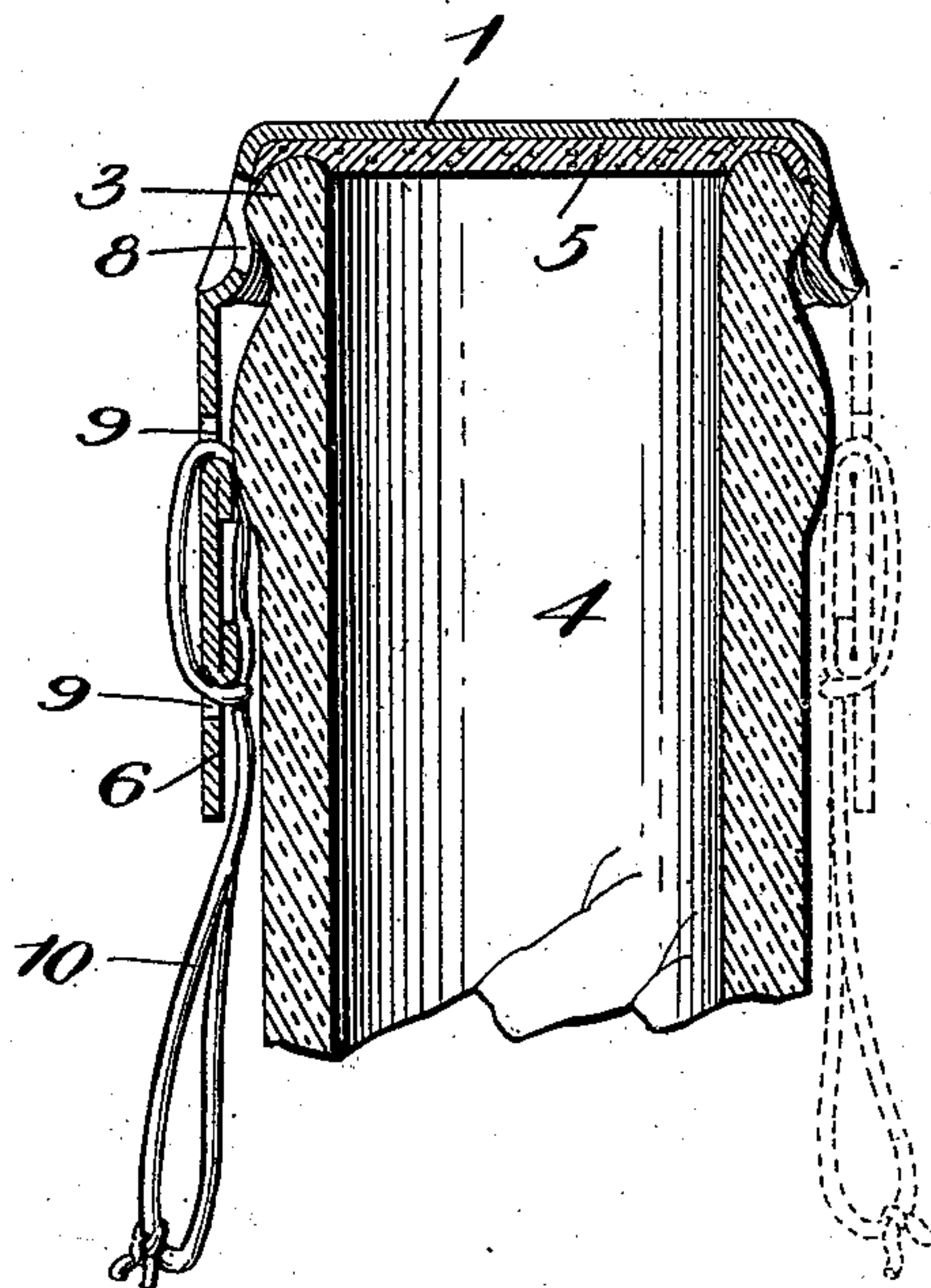


Fig. 3.

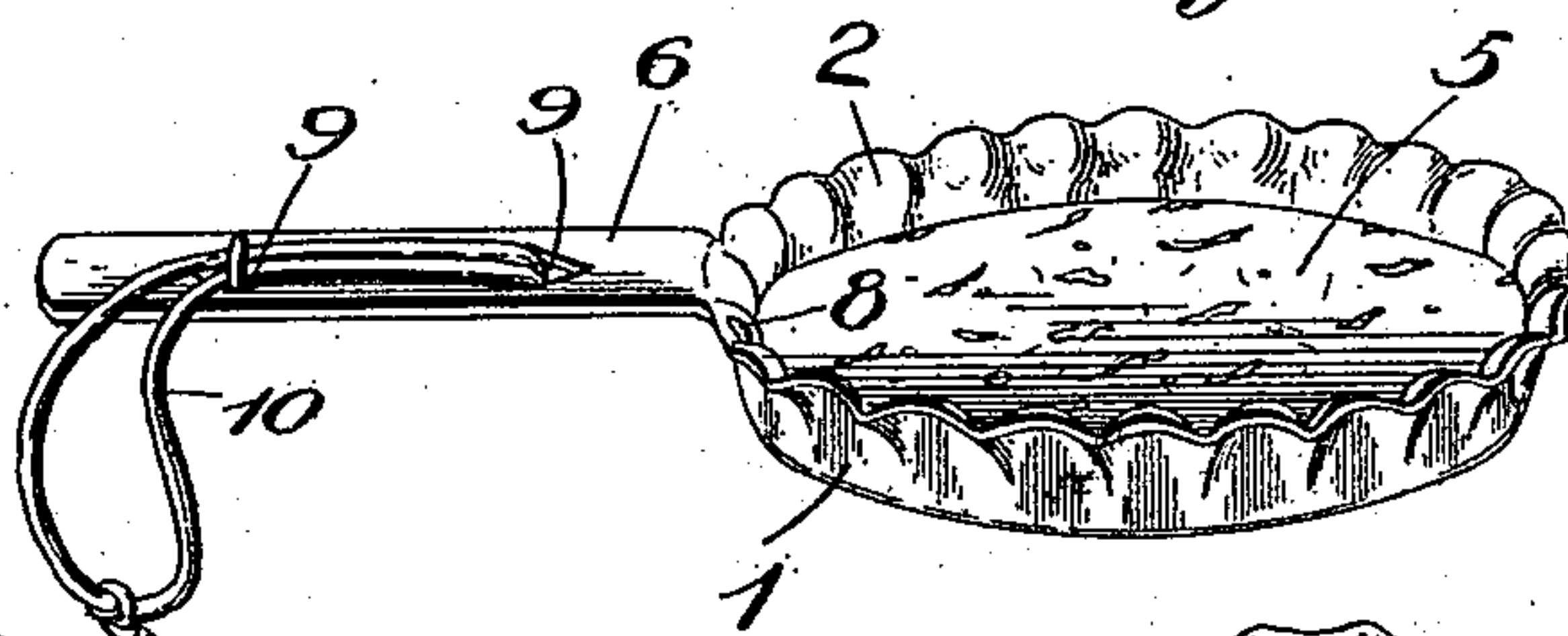


Fig. 4.

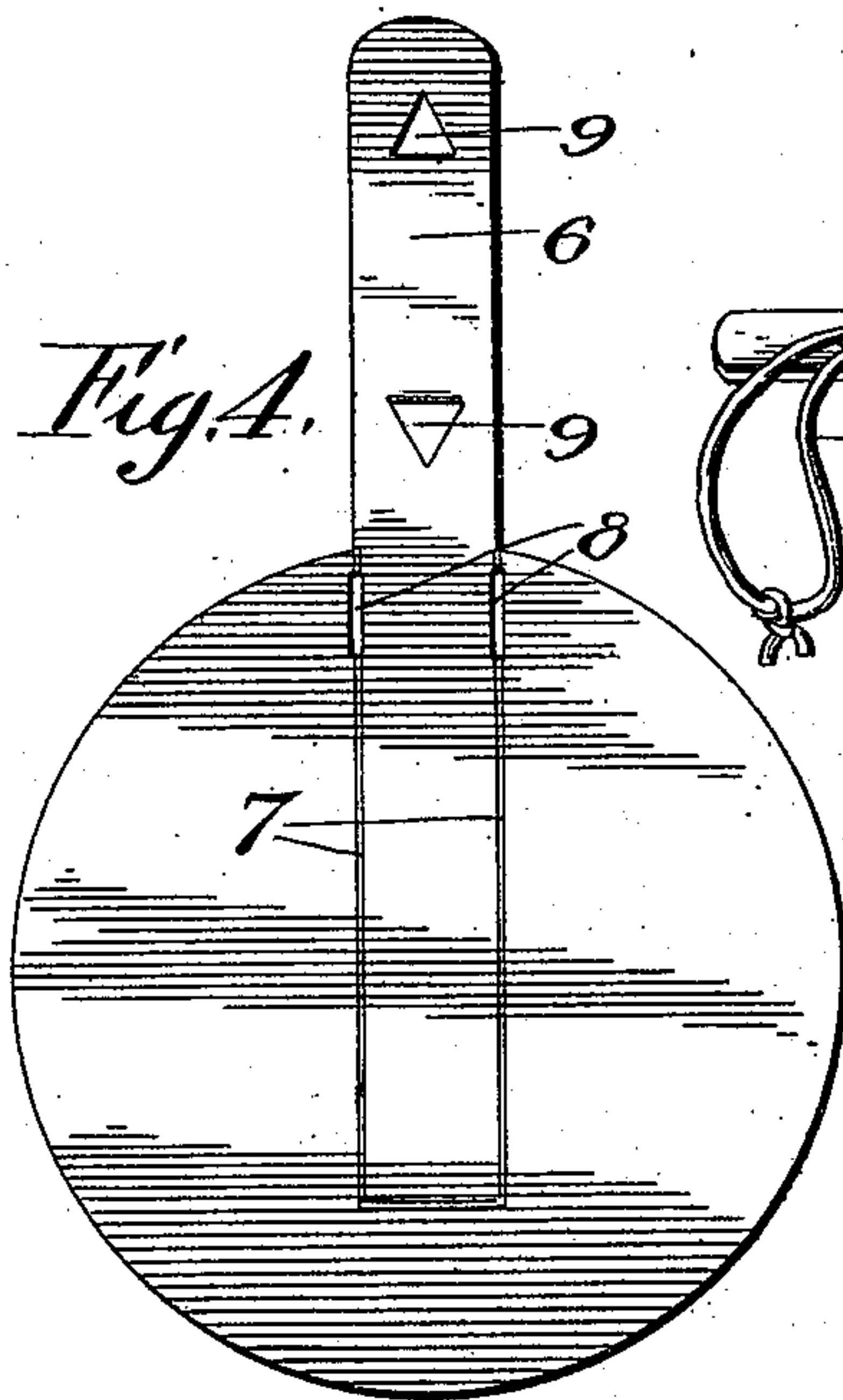
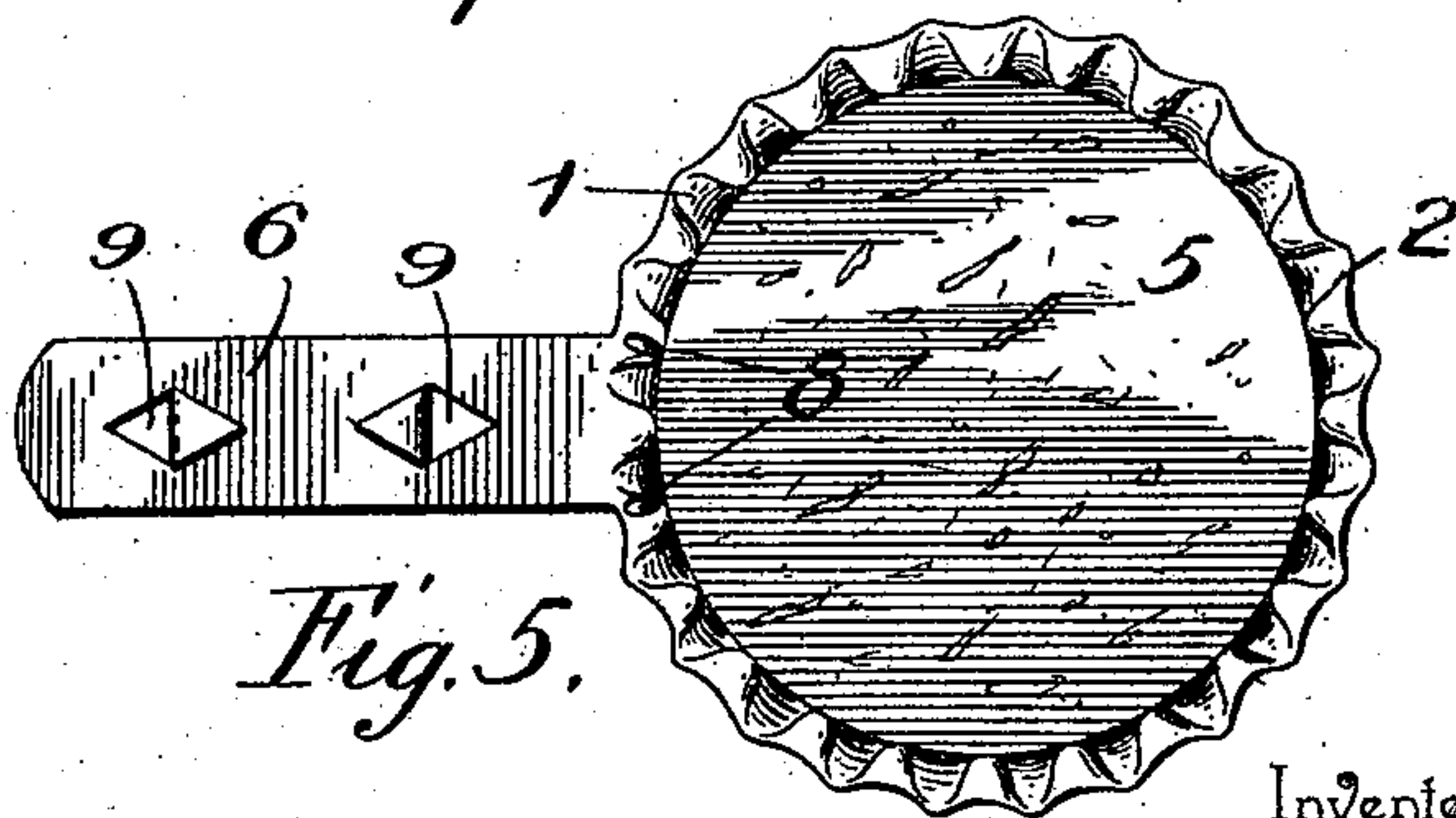


Fig. 5.



Inventor

John B. Neuendorff.

Witnesses

J. H. Culverwell,

By *His* Attorneys,

J. F. Riley

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

JOHN B. NEUENDORFF, OF SAN ANTONIO, TEXAS.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 598,952, dated February 15, 1898.

Application filed September 20, 1897. Serial No. 652,293. (No model.)

To all whom it may concern:

Be it known that I, JOHN B. NEUENDORFF, a citizen of the United States, residing at San Antonio, in the county of Bexar and State of Texas, have invented a new and useful Bottle-Stopper, of which the following is a specification.

The invention relates to improvements in bottle-stoppers.

10 The object of the present invention is to improve the construction of bottle-stoppers and to enable a metallic sealing-cap to be readily removed from the neck of a bottle without the use of an instrument.

15 The invention consists in the construction and novel combination and arrangement of parts, as hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

20 In the drawings, Figure 1 is a perspective view of a portion of a bottle provided with a stopper constructed in accordance with this invention. Fig. 2 is a vertical sectional view of the same. Fig. 3 is a detail view of the device prior to its application to a bottle. 25 Fig. 4 is a plan view of the blank from which the sealing-cap is constructed. Fig. 5 is a reverse plan view of the sealing-cap, the extracting-string being removed.

30 Like numerals of reference designate corresponding parts in the several figures of the drawings.

1 designates a sealing-cap constructed of metal and provided with a locking-flange 2, 35 which engages an annular shoulder 3 of a bottle 4 and which is crimped or bent into locking contact with the same. The metallic sealing-cap contains a sealing-disk 5, of cork or any other suitable material. The crimping 40 or bending of the locking-flange is effected while the sealing-disk is under pressure, and heretofore an instrument and the exertion of considerable force were necessary in order to remove the stopper from the bottle.

45 In order to enable the stopper to be readily removed from the bottle without employing an instrument, the cap is provided at one side with an integral strip or tongue 6 and has grooves or partial cuts 7 disposed in alignment with the side edges of the strip or tongue 6 and extending across the cap from the adjacent portion of the locking-flange to within

a short distance of the flange at the opposite side of the cap. The locking-flange is provided, between the grooves or partial cuts 7 55 and the strip or tongue 6, with slots 8, which facilitate the crimping of the flange at the strip or tongue and which terminate short of the periphery of the said flange. The blank from which the cap is constructed is illustrated in Fig. 4 of the accompanying drawings, and the small quantity of material at the outer or lower terminals of the slots connecting the strip or tongue with the adjacent portions of the locking-flange is easily broken, 65 and the grooves or partial cuts extending from the inner or upper terminals of the slots permit the tongue and the metal between them to be readily torn off. The stopper is thus readily removed from the neck of the bottle 70 without employing a key or other form of instrument. The partial cut or groove 7 may be extended entirely across the top of the cap instead of terminating a short distance from one side, and the depending strip or tongue 75 6 may be duplicated to provide a pair of handles, as illustrated in dotted lines in Fig. 2 of the drawings.

The strip or tongue is provided between its ends with reversely-arranged triangular openings 9, formed by cutting the metal at two sides, and the partially-severed tongues or spurs are bent inward toward each other against the inner face of the tongue or strip 80 to avoid cutting an extracting wire or string 10, which affords a convenient grip in tearing off the tongue or strip. The wire, cord, or string is doubled to form a loop, and the doubled or looped portion is passed through the openings 9 and receives the body portion, as 85 illustrated in the accompanying drawings, whereby the cord or string is readily fastened to the strip or tongue. Instead of making the openings triangular, as above described, they may be constructed circular or any other desired shape; but the triangular form is preferable when a cord is employed. 95

The invention has the following advantages:

The metallic sealing-cap is capable of securely retaining the sealing-disk on the upper edges of the neck of the bottle, and it is adapted to be readily removed without the use of a key or other instrument. 100

The slots adjacent to the strip or tongue facilitate the crimping of the flange at that point, and the metal at the outer or lower terminals of the slots is readily broken when it is desired to tear the strip or tongue from the cap for removing the latter.

The grooves and slots do not impair the efficiency of the cap in retaining the sealing-disk on the bottle.

Changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

What I claim is—

1. A bottle-stopper comprising a metallic cap provided with a locking-flange adapted to be crimped or bent into locking contact with a shoulder of a bottle, said cap having a strip or tongue at one side of the locking-flange and having a central weakened portion, adapted to be readily torn off with the strip or tongue, whereby the cap is removed, substantially as described.

2. A bottle-stopper comprising a metal cap having a crimped locking-flange and pro-

vided at one side thereof with an integral strip or tongue, said cap being provided at its top with grooves or partial cuts disposed in alinement with the side edges of the strip or tongue, the locking-flange being slotted between the latter and the grooves or cuts, and a sealing-disk arranged within the cap, substantially as described.

3. A bottle-stopper comprising a metallic sealing-cap having a crimped or bent locking-flange, and provided at one side with a strip or tongue and being weakened opposite the same, said tongue or strip being provided with opposite openings and having the portions separated through the formation of the openings bent toward each other, and an extracting-string looped through the openings, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOHN B. NEUENDORFF.

Witnesses:

S. A. LEAL,

H. POBUKOWSKI.