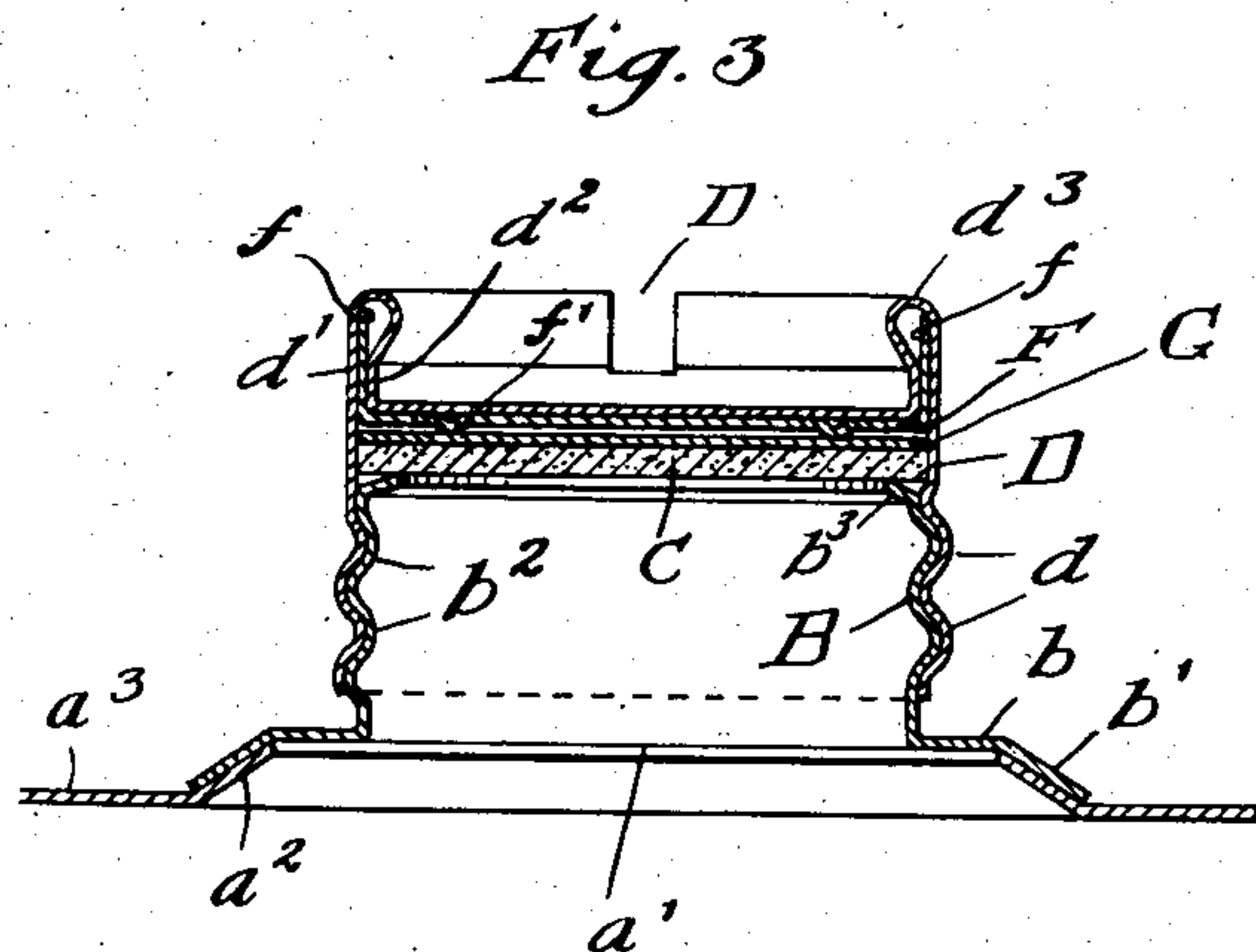
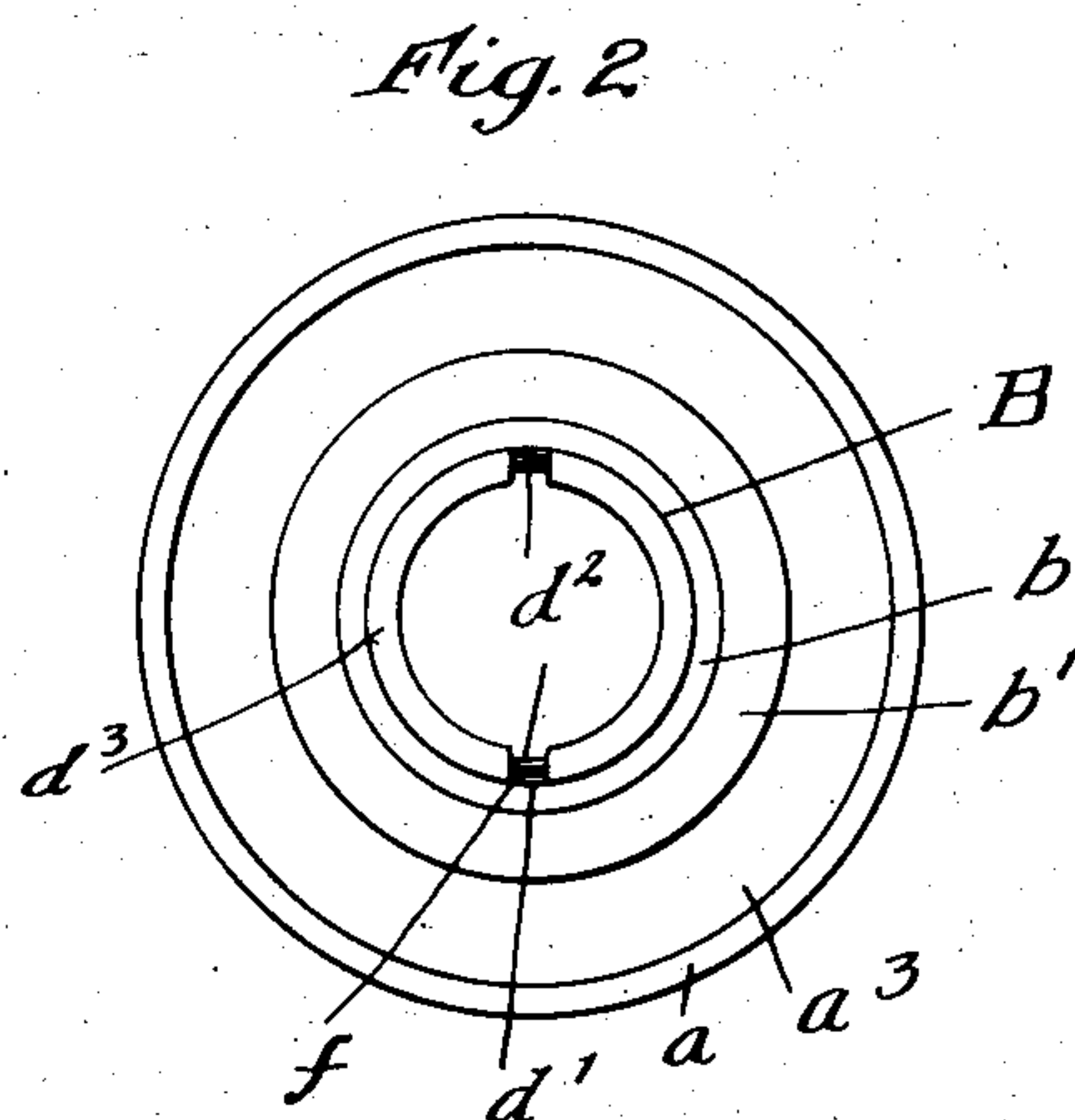
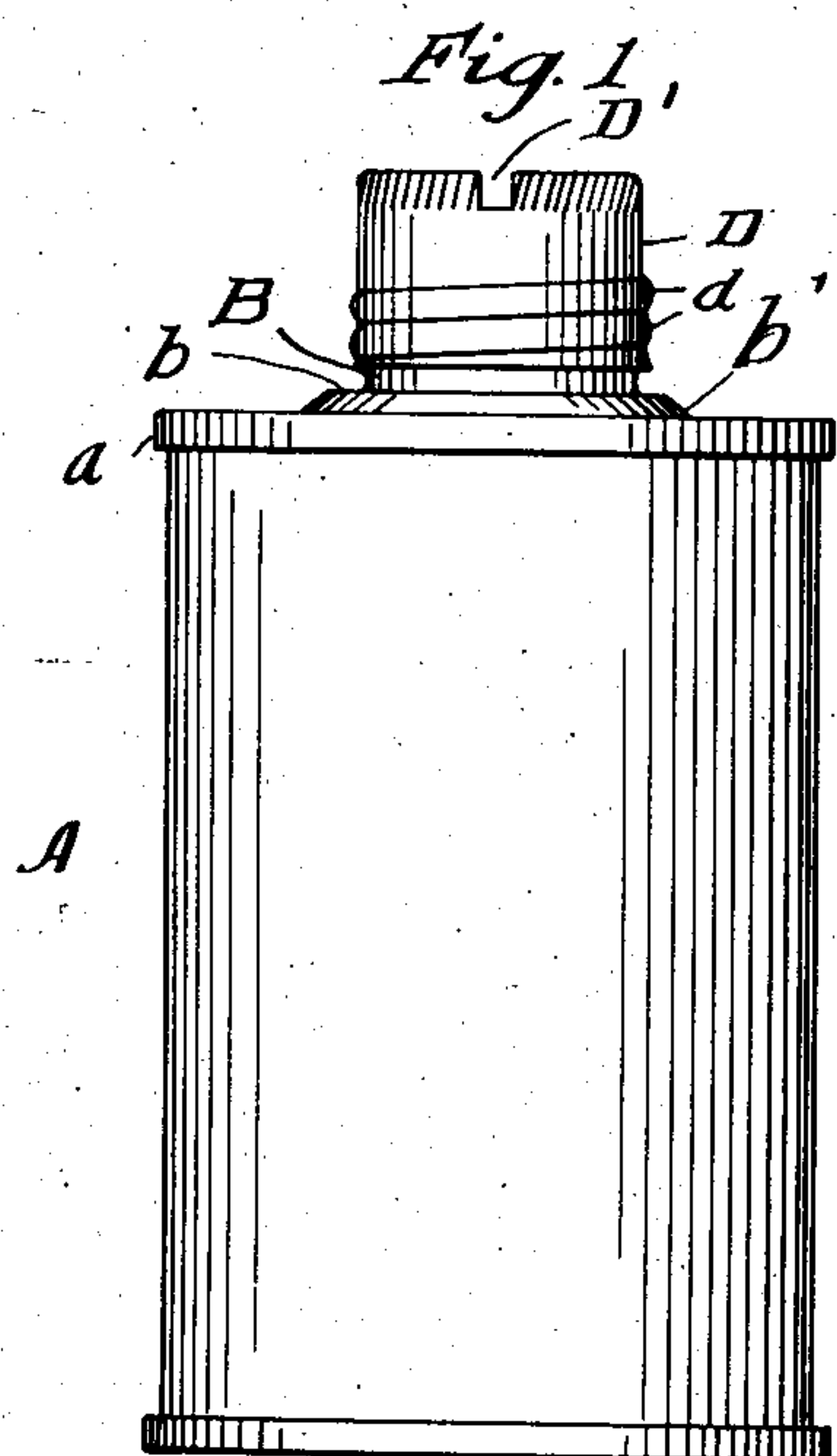


No. 834,173.

PATENTED OCT. 23, 1906.

S. TEVANDER.
SCREW TOP CAN.

APPLICATION FILED MAY 15, 1905.



Witnesses:

Wm. Geiger
P. Abrams

Inventor.
Svan Tevander
By Munday, Everts & Adcock.
Attorneys

UNITED STATES PATENT OFFICE.

SWAN TEVANDER, OF MAYWOOD, ILLINOIS, ASSIGNOR TO AMERICAN CAN COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

SCREW-TOP CAN.

No. 834,173.

Specification of Letters Patent.

Patented Oct. 23, 1906.

Application filed May 15, 1905. Serial No. 260,395.

To all whom it may concern:

Be it known that I, SWAN TEVANDER, a citizen of the United States, residing in Maywood, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Screw-Top Cans, of which the following is a specification.

My invention relates to improvements in screw-top cans.

10 The object of my invention is to provide a screw-top can of a simple, efficient, durable, and economical construction in which the screw-cap may be readily inserted or removed however tightly it may become stuck
15 or fixed in place.

My invention consists in the means I employ to practically accomplish this object or result—that is to say, it consists, in connection with the screw top or nozzle of the can,
20 of a screw-cap therefor, furnished with a deep countersink, thus forming an integral upwardly-projecting rim and an inverted cap-disk having its upwardly-projecting flange fitting between the inner and outer walls of
25 the upwardly-projecting double rim of the screw-cap, thus providing the screw-cap with an upwardly-projecting rim of three thicknesses, which is furnished with a diametrical slot to receive a nail, knife, or other implement
30 for unscrewing the cap.

My invention also consists in the novel construction of parts and devices and in the novel combinations of parts and devices herein shown or described.

35 In the accompanying drawings, forming a part of this specification, Figure 1 is a side elevation of a screw-top can embodying my invention. Fig. 2 is a plan view, and Fig. 3 is a central vertical detail section.

40 In the drawings, A represents a can having an upper head a with an opening a' therein, surrounded by an inclined annular flange a^2 and horizontal flange a^3 .

45 B is the screw top or nozzle, having annular flanges b b' soldered or otherwise secured to the head a of the can. The screw-top B is furnished with screw-threads b^2 and with an inturned flange b^3 to serve as a seat for the cork disk or packing C.

50 D is the screw-cap, the same having screw-threads d and an upwardly-projecting annular double rim d' d^2 formed by providing the screw-cap with a deep countersink. The inner annular wall d^2 of this upwardly-project-

ing integral double rim of the screw-cap is 55 furnished with a roll enlargement or reinforcement d^3 to give additional strength and rigidity to this upwardly-projecting rim.

F is the inverted cap-disk, the upwardly-projecting flange f of which fits between the 60 outer and inner walls d' d^2 of the upwardly-projecting double rim of the screw-cap and forms a snug and tight fit with these inner and outer walls of the screw-cap. The upwardly-projecting rim of the screw-cap is 65 thus caused to be composed of three thicknesses and is given great stiffness and rigidity, as the upwardly-projecting flange of the supplemental inverted cap F reinforces the double walls d' d^2 of the integral upwardly-pro- 70 jecting rim of the screw-cap. The tripartite upwardly-projecting rim of the screw-cap is provided with a diametrical slot D' to receive a knife, nail, lever, or other implement for screwing and unscrewing the cap. 75

G is a sheet-metal disk or washer interposed between the cork or packing C and the inverted supplemental cap-disk F to prevent the same sticking to the cork or packing, and thus interfering with the unscrewing of the 80 screw-cap. The supplemental inverted cap-disk F is provided with an annular bead or shoulder f' to give a narrow bearing of the same on the washer G, and thus facilitate the unscrewing of the screw-cap. By this means 85 however tightly the screw-cap may become fixed or stuck to the screw-top, it can be readily unscrewed.

I claim—

1. In a screw-top can, the combination 90 with the screw-top of a screw-cap having a double upwardly-projecting slotted integral annular rim, said double rim being furnished with an annular hollow enlargement at its upper end through which the slots extend, 95 and a supplemental cap-disk having an upwardly-projecting annular flange nesting within and tightly engaging one of the annular walls of said double rim, substantially as specified. 100

2. The combination with a screw-top, of a screw-cap having an integral upwardly-projecting double annular rim furnished with an annular hollow enlargement at its upper end and provided with slots extending through 105 the inner and outer walls of the rim and the enlargement, the inner and outer walls of the double rim fitting snugly together and mu-

usually bracing and supporting each other below said annular enlargement, and a supplemental cap-disk having an upwardly-projecting annular flange nesting within and
5 tightly engaging one of the annular walls of said double rim, substantially as specified.

3. The combination with a screw-top, of a screw-cap having an integral upwardly-projecting double annular rim furnished with an
10 annular hollow enlargement at its upper end and provided with slots extending through the inner and outer walls of the rim and the enlargement, the inner and outer walls of the double rim fitting snugly together and mutually
15 bracing and supporting each other below said annular enlargement, and a supplemental cap-disk having an upwardly-projecting annular flange nesting within and tightly engaging one of the annular walls of
20 said double rim, and a metal disk or washer interposed between said packing-disk and said supplemental disk, substantially as specified.

4. The combination with a screw-top, of a
25 screw-cap having an annular upwardly-projecting double rim, and an inverted cap-disk having an upwardly-projecting flange fitting between the walls of said double rim, said upwardly-projecting double rim of the screw-
30 cap and said upwardly-projecting flange of the cap-disk being furnished with open slots to receive an implement for unscrewing the cap, substantially as specified.

5. The combination with a screw-top, of a
35 screw-cap having an upwardly-projecting integral annular double rim and a flanged cap-

disk having its annular flange fitting and clamped between the inner and outer walls of said double rim of the screw-cap, said double rim and the flange of said cap-disk having
40 registering open slots substantially as specified.

6. The combination with a screw-top, of a screw-cap having an integral annular upwardly-projecting double rim, and an inverted
45 cap-disk having an upwardly-projecting flange, nesting with and bracing the walls of said double rim, said upwardly-projecting double rim of the screw-cap and said upwardly-projecting flange of the cap-disk being
50 furnished with open slots to receive an implement for unscrewing the cap, a cork or packing interposed between said screw-top and screw-cap, and a sheet-metal disk or washer between said cork or packing and
55 said inverted cap-disk, said inverted cap-disk having a narrow annular bearing against said washer substantially as specified.

7. The combination with a screw-top, of a screw-cap having an upwardly-projecting
60 annular double rim and a flanged cap-disk with its annular flange fitting between the inner and outer walls of said double rim of the screw-cap there being open slots through both walls of said rim and through the flange
65 of said cap-disk, a cork or packing, and a sheet-metal disk or washer on top of said cork or packing, substantially as specified.

SWAN TEVANDER.

Witnesses:

EDMUND ADCOCK,
H. M. MUNDAY.