

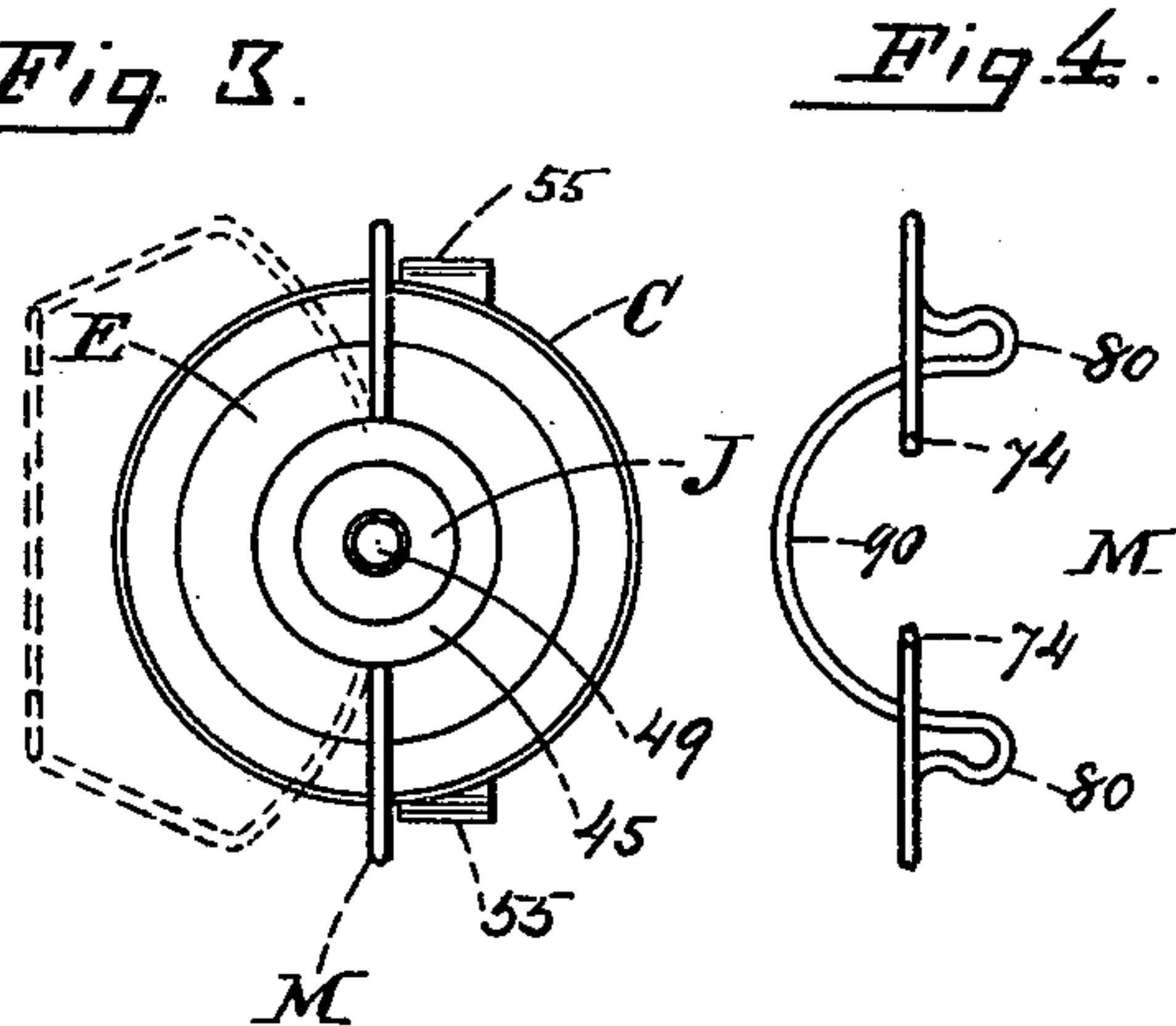
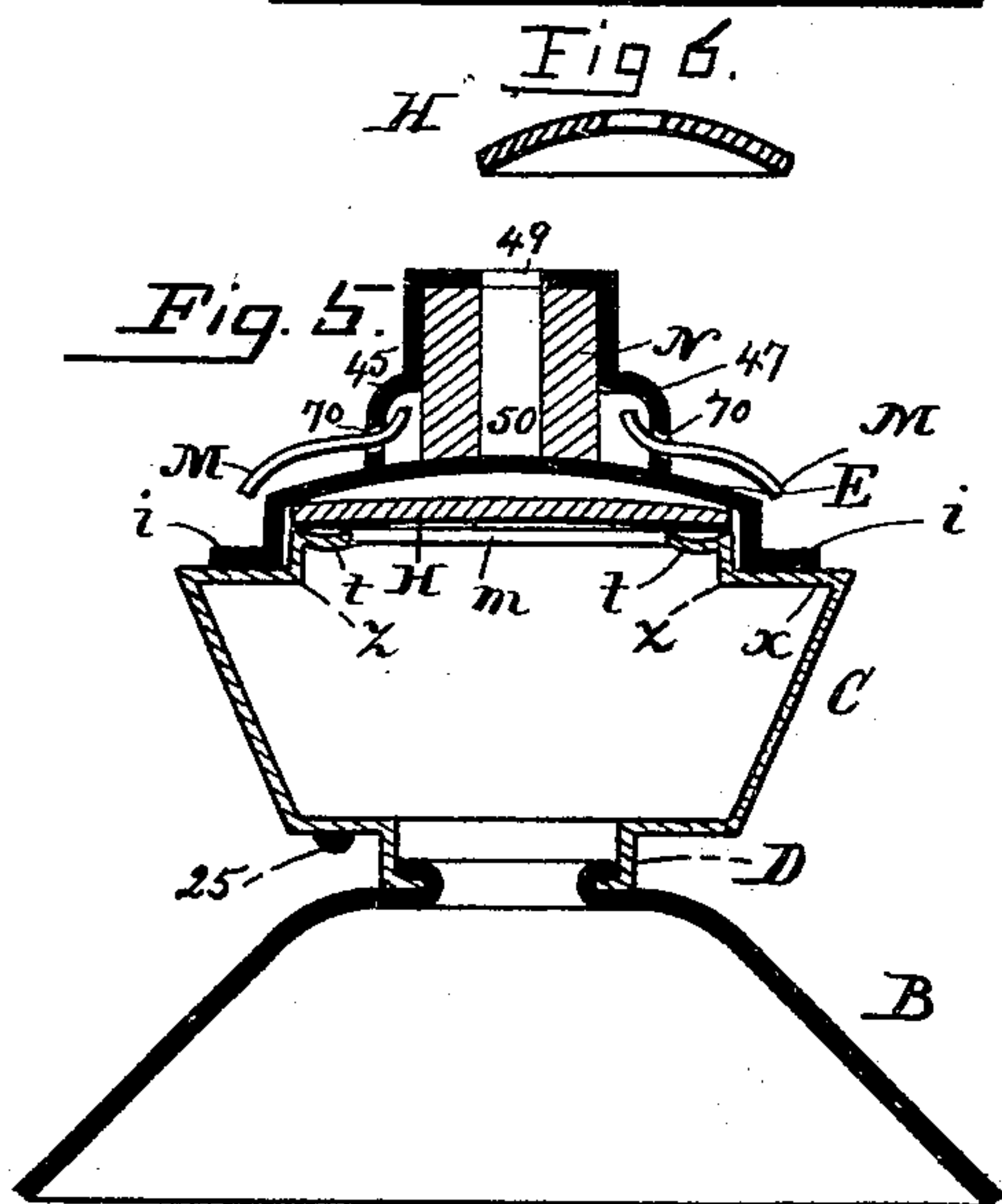
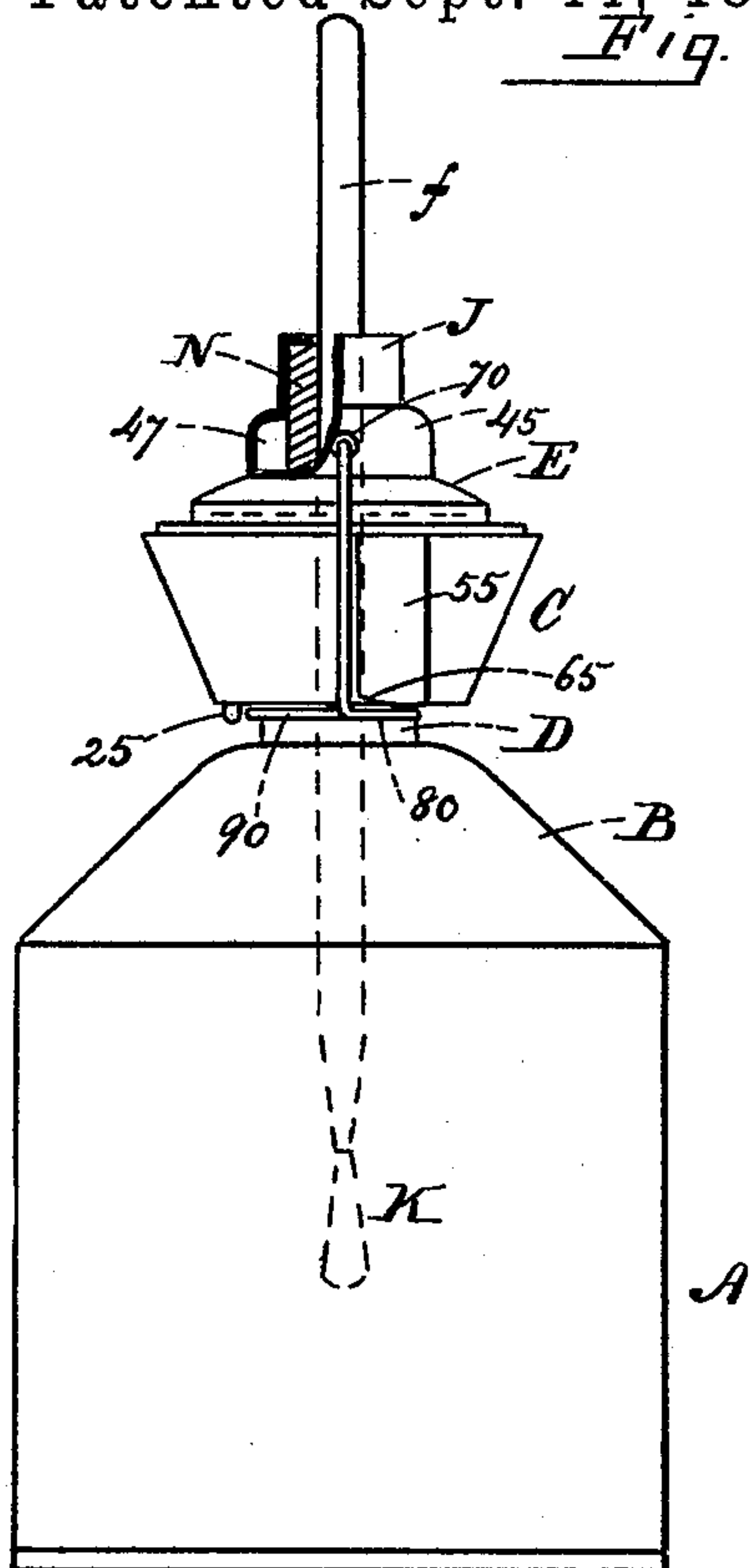
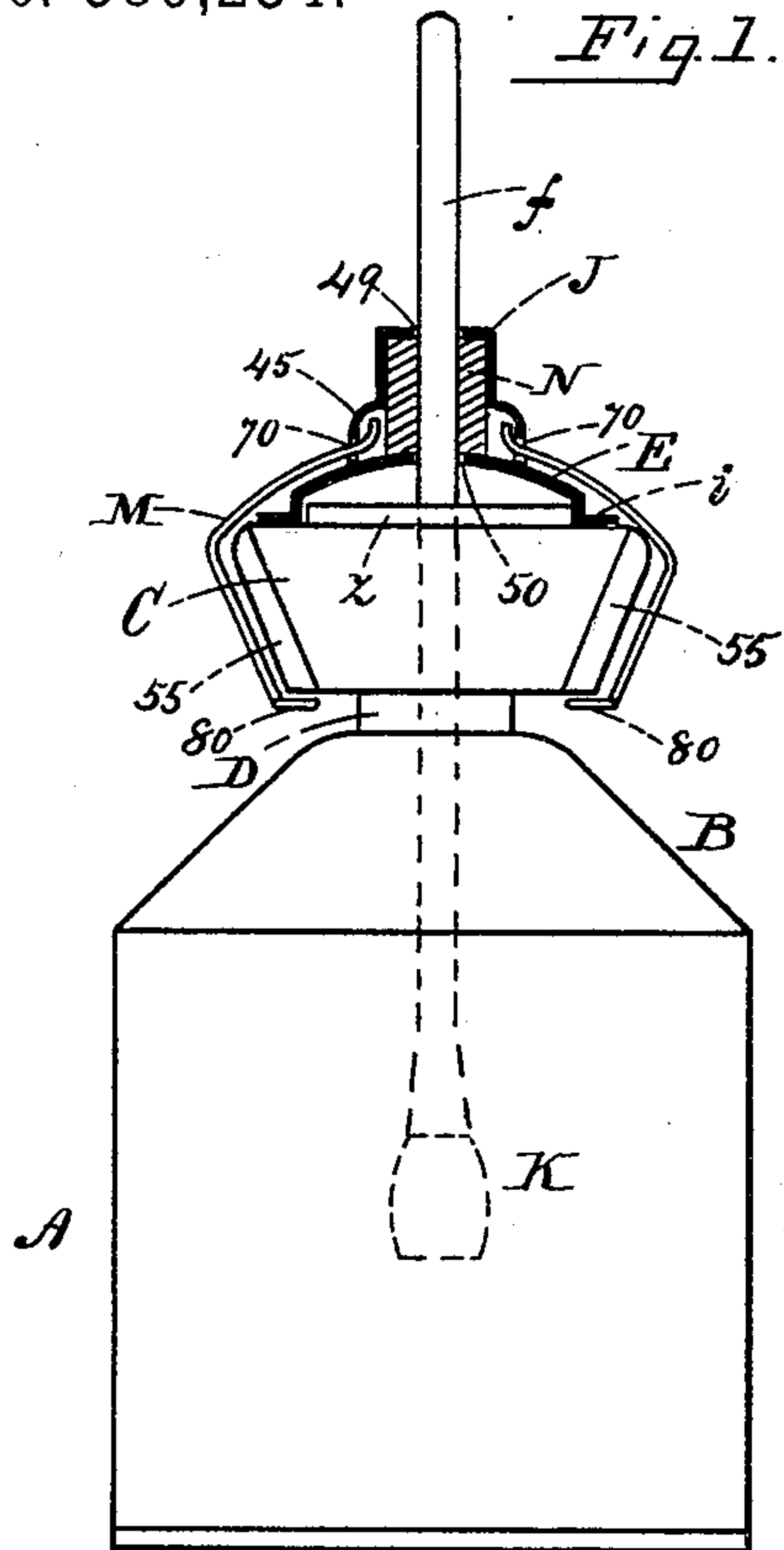
(No Model.)

I. C. MAYO.

CAN.

No. 389,234.

Patented Sept. 11, 1888.



WITNESSES:
Robt W. Matthews,
C. M. Spinnery.

INVENTOR:
Israel C. Mayo,
PER C. A. Shaw & Co.,
ATTYS.

UNITED STATES PATENT OFFICE.

ISRAEL C. MAYO, OF GLOUCESTER, MASSACHUSETTS.

CAN.

SPECIFICATION forming part of Letters Patent No. 389,234, dated September 11, 1888.

Application filed May 7, 1888. Serial No. 273,005. (No model.)

To all whom it may concern:

Be it known that I, ISRAEL C. MAYO, of Gloucester, in the county of Essex, State of Massachusetts, have invented a certain new and useful Improvement in Cans, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figures 1 and 2 are side elevations, partly in section, of my improved can; Fig. 3, a top plan view of the cap detached; Fig. 4, a top plan view of the clamp detached; Fig. 5, an enlarged vertical section of the cap and collar detached; and Fig. 6, a vertical section of the packing-disk detached, showing it as provided with a central aperture.

Like letters and figures of reference indicate corresponding parts in the different figures of the drawings.

My invention relates to that class of cans which are employed in putting up glue, mucilage, paste, paints, varnish, &c., which are designed to be used directly from the can by means of a brush inserted therein; and it consists in certain novel features, as hereinafter fully set forth and claimed, the object being to produce a simpler, cheaper, and more effective article of this character than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation.

In the drawings, A represents the body of the can, B the collar, and C the cap, these parts being all preferably composed of sheet metal and connected in the manner usually employed in the construction of sheet-metal ware; but instead of metal the can may be made of glass or earthenware and molded.

The form of the collar B is that of a hollow truncated cone, and the cap C is flaring, these parts being connected by a neck, D, which is considerably less in diameter than the bottom of the cap or top of the collar. A hole or mouth, *m*, is cut in the top *x* of the cap C, said hole being preferably of greater diameter than the diameter of the neck D. A vertical annular shoulder, *z*, is also formed in the top *x*, to

keep the cover of the can in position, and projecting horizontally inward from the top of this shoulder there is an annular flange, *t*, which is curved downward in cross-section, as shown in Fig. 5, to form a tight joint between the packing-disk and top of the cap around the hole *m*, and also to form a shallow gutter to catch any of the liquid passing between the disk and said flange, and thereby prevent it from running over onto the outer portion of the top *x*.

A dish-shaped cover, E, provided peripherally with an annular flange, *i*, is placed on the cap C, a circular packing-disk, H, composed of thick pasteboard or other suitable material, being disposed between said cover and the top of said cap when the can is filled to prevent leakage in transportation. Sometimes I provide said disk with a central aperture, for the purpose hereinafter described, as seen in Fig. 6. A dome, J, is secured centrally to the cover E, said dome being enlarged at its base, as shown at 45, to form the chamber 47. A centrally-arranged hole, 49, is formed in the top of the dome J, and a corresponding hole, 50, in the top of the cover E, in which holes the handle *f* of the brush K is inserted, a packing ring or pad, N, composed of rubber, felt, or any other suitable material, being placed in the dome and arranged to act frictionally on said handle and keep the brush in position.

A projection, 55, is formed on each side of the cap C by molding, if such cap be of glass, or by stamping, if of metal, the lower ends of said projection being curved or cam-shaped, as shown at 65; but these projections may be omitted, if desired. The cover is secured to the cap by a binder or yoke, M, which is composed of a single piece of wire having its ends 74 inserted in holes 70 in the sides of the base 45 of the dome J, said ends being bent upward within the chamber 47 to prevent their escape. The side portions of the binder are bent to conform approximately with the contour of the cap C in vertical section, as shown in Fig. 1, and also to form at the lower end of the binder a horizontal loop, 80, at each side of said cap. The binder is also provided with a large horizontally-arranged loop, 90, at its lower end, which conforms approximately with the contour of the neck D, all of said loops and also the side portions and ends, 74, of the binder be-

ing formed integral or in one piece. A rounded projection, 25, is formed on the bottom of the cap C opposite the center of the loop 90, said projection serving as a catch or lock to keep the binder in position when the can is closed. This projection may, however, be omitted and the cover secured by forcing the large loop 90 under the bottom of the cap C around the neck D.

10 In the use of my improvement the can is filled in the usual manner and the packing-disk H placed over the mouth or hole *m*, after which the cover E is placed on the disk and the loops 80 pushed under the curved lower ends, 65, of the projections 55, thereby drawing the cover down forcibly onto the disk and tightly closing the can, in a manner that will be readily understood by all conversant with such matters without a more explicit description. As the loops 80 pass beneath the cam-shaped ends 65 of the projections 55, the loop 90 is brought into contact with the catch 25, under which it is forced, said loop springing upward behind said catch and securely locking the binder in position. It will be understood that the binder is slightly elastic, thus enabling the loops 80 and loop 90 to yield sufficiently to pass, respectively, beneath the projections 55 and 25, as described. The cover E is loosened and the solid disk H removed to insert the brush in the holes 49 and 50, and it is not usually inserted until the glue or contents of the can is required, the disk H being then usually removed and dispensed with. A hole may, however, be formed in the packing-disk corresponding with the holes 49 and 50, as above mentioned, and the brush inserted when the can is filled, if desired, the disk being afterward retained or removed when using the brush, as may be preferred.

The cap C, being flaring and provided with a wide mouth, *m*, and top *x*, enables the can to be readily filled without wasting or spilling the liquid.

45 I do not confine myself to constructing the body A with a conical collar, B, as any other suitable top may be employed instead, if desired, nor to the use of the invention for glue or mucilage cans, as it is applicable to fruit-jars, milk-cans, &c.

Having thus explained my invention, what I claim is—

1. In a can of the character described, the combination of the following instrumentalities, to wit: a body, a flaring cap provided with projections at its sides and a projection or catch at its bottom, a neck connecting the collar of said body and said cap, a cover provided with a hole for the brush, a dome secured to said cover and provided with a hole for the brush and holes for receiving the ends of the binder, a friction pad or packing for the brush-handle disposed in said dome, a binder having its upper ends inserted in holes in said dome, said binder being provided with loops adapted to engage the projections at the

sides of said cap and a loop adapted to engage the catch at the bottom of the cap, and a packing-disk for the cover, substantially as set forth.

2. In a can of the character described, the combination of the following instrumentalities, to wit: a body, a flaring cap provided with projections at its sides and a projection or catch at its bottom, a neck connecting the collar of said body and said cap, a cover provided with a hole for the brush, a dome secured to said cover and provided with a hole for the brush and holes for receiving the ends of the binder, a friction pad or packing for the brush-handle disposed in said dome, a binder having its upper ends inserted in holes in said dome, said binder being provided with loops adapted to engage the projections at the sides of said cap and a loop adapted to engage the catch at the bottom of the cap, a packing-disk for the cover, and a brush adapted to enter the body of the can and having its handle inserted in holes in the cover and dome, substantially as specified.

3. In a can of the character described, the flaring cap C, provided with the projections 55, shoulder *z*, and mouth *m*, said cap being connected with the collar B of the body A by the neck D, substantially as set forth.

4. In a can of the character described, the flaring cap C, provided with the catch 25, in combination with the cover and the binder M, loosely connected thereto and adapted to engage said catch, substantially as specified.

5. In a can of the character described, the flaring cap C, having the mouth *m* and shoulder *z*, provided with the curved annular flange *t*, substantially as set forth.

6. In a can of the character described, the flaring cap C, provided with the top *x*, shoulder *z*, flange *t*, mouth *m*, projections 55, and catch 25, substantially as set forth.

7. In a can of the character described, the cover E, provided with the hole 50, the dome J, having the hole 49, and enlarged base 45, provided with the holes 70, said dome being centrally secured to said cover, the packing N, disposed in said dome, and the binder M, provided with the loop 90, and having its ends pivoted in the holes 70 of said dome, substantially as specified.

8. In a can of the character described, the cover E, provided with the hole 50, the dome J, having the hole 49, and enlarged base 45, provided with the holes 70, said dome being centrally secured to said cover, the packing N, disposed in said dome, the binder M, provided with the loop 90 and having its ends pivoted in the holes 70 of said dome, and the brush K, having its handle *f* inserted in the holes 49 and 50, substantially as set forth.

9. In a can of the character described, the body A, provided with the collar B, the flaring cap C, connected with said collar by the neck D and provided with the projections 55, catch 25, top *x*, shoulder *z*, and hole or mouth

m, the cover *E*, provided with the hole 50, the dome *J*, having the enlarged base 45 and provided with the holes 49 and 70, said dome being centrally secured to said cover, the binder
5 *M*, provided with the loops 80 and 90, the ends of said binder being inserted in the holes 70 of said base, and the brush *K*, having the handle *f* inserted in the holes 49 and 50, all being constructed, combined, and arranged to operate substantially as set forth.

ISRAEL C. MAYO.

Witnesses:

C. A. SHAW,

O. M. SHAW.