

April 14, 1925.

1,533,753

E. L. MUNCH

MEDICINE DROPPER

Filed Feb. 26, 1923

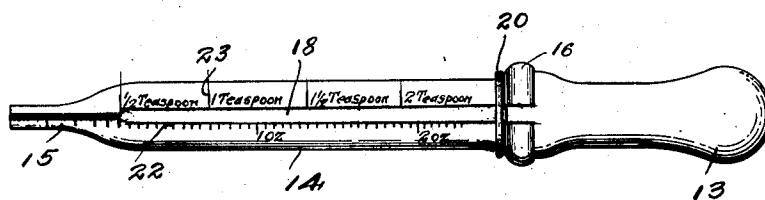


Fig. 1.

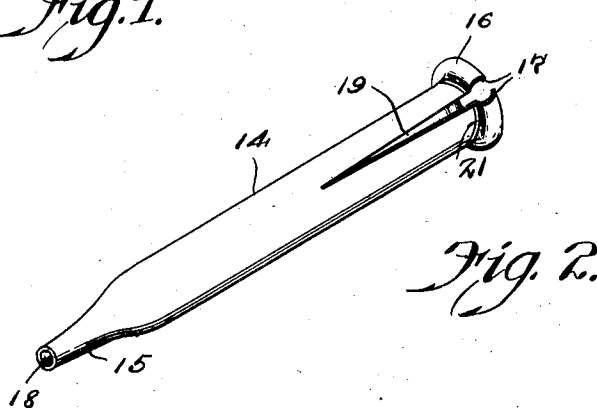


Fig. 2.

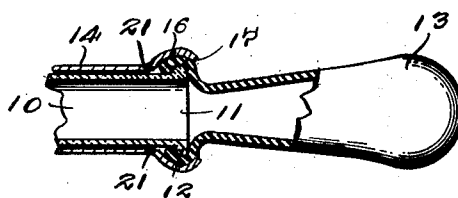


Fig. 3.

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UNITED STATES PATENT OFFICE.

EARL L. MUNCH, OF JOHNSON CITY, NEW YORK.

MEDICINE DROPPER.

Application filed February 26, 1923. Serial No. 621,181.

To all whom it may concern:

Be it known that I, EARL L. MUNCH, a citizen of the United States, residing at Johnson City, in the county of Broome and State of New York, have invented certain new and useful Improvements in Medicine Droppers, of which the following is a specification.

The invention has for an object to effect improvements in attachments for medicine droppers, whereby the plain glass element with a rubber bulb for its operation may be used to measure various quantities of liquid. It is a particular object to effect improvements in attachable casings for medicine droppers, whereby the casing will be readily attachable or detachable to or from the ordinary medicine dropper, and whereby when attached, the quantity of liquid drawn into the glass tube by operation of the bulb will be accurately indicated in standard units of measure.

The objects, advantages and novelty of the invention will be readily understood from the following description and drawings, wherein,—

Figure 1 is an elevational view of a medicine dropper equipped with my attachment,

Fig. 2 is a perspective view of the attachment,

Fig. 3 is a detail of the manner of engagement of the casing with the medicine dropper, enlarged.

There is illustrated a familiar form of medicine dropper including the glass tube 10, which may be formed in the manner heretofore familiar in such devices, being provided with a large end 11 having a bead 12 therearound over which the usual rubber bulb element 13 is engaged.

Engaged loosely around the tube 10, there is a metal casing 14 of similar form, including a nozzle portion 15, formed by tapering the body of the casing. The body of the casing is cylindrical throughout its major part, and at the end opposite the nozzle 15, the casing is formed with a bead-like portion 16, which provides an enlargement within the end of the casing, with an inturned edge 17, at the upper part. The casing 14 is longitudinally slotted throughout its length, as at 18, on one side, while at the opposite side, a slit 19 is formed longitudinally in the case, for a part of its length, opening on the large end, by which two opposite relatively movable members are pro-

vided, which may be separated to readily admit within the portion 16, the bead 12 of the tube 10 and the portion of the bulb 13 thereover. The parts are constructed so that they will press inwardly with sufficient force over an engaged bulb 13, to securely retain the case upon the enclosed tube. If desired, the case 14 may be secured against casual opening to release it from a dropper, although this may not be found essential. In the present instance, there is illustrated in Fig. 1 a small ring element 20, which is engaged slidably over the case 14, and a groove 21 is formed in this part adjacent the part 16 so that the ring 20 may be retained in the groove 21 by the tendency of the ends of the case 14 to spring apart under the expansive action of the portion of the bulb 13 which is compressed thereunder, or the resilience of the metal.

Upon one side of the slot 18 there may be formed a scale 22 to indicate the number of drops contained in the enclosed tube when held vertically with the end 15 downwardly, while on the other side there may be formed a scale 23, indicating parts of a teaspoonful, so that familiar measurements, both apt to be involved in the use of the device, may be accurately followed.

It will be seen that an extremely simple device is provided which may be readily manufactured in one piece by methods familiar in the art, to the end that it may be put upon the market at a low price. It will serve its functions well, both as a measure indicating device and as a safeguard to the glass portions of medicine droppers, while enabling ready cleaning of such devices, and of the guard casing, which is easily removed for this purpose.

What is claimed:—

1. As an improved article of manufacture, a guard and measure indicating casing for medicine droppers comprising a cylindrical body portion having a longitudinal slot throughout its length at one side, and slitted longitudinally from one end for a part of its length at the opposite side, the slitted end part having an interior circumferential groove therein for the purposes described, the two parts between the slit and groove being constructed to spring together upon an inserted tube and bulb end.

2. As an improved article of manufacture, a guard and measure indicating casing for medicine droppers comprising a cylindrical

body portion having a longitudinal slot throughout its length at one side, and slitted for a part of its length longitudinally at the opposite side, the end portion adjacent the slitted part having an interior circumferential groove therein for the purposes described, the two parts between the slit and groove being constructed to spring together upon an inserted tube and bulb end, scales
10 indicating the number of drops being formed upon the side of the slot.

3. As an improved article of manufacture, a guard and measure indicating casing for medicine droppers comprising a cylindrical
15 body portion having a longitudinal slot throughout its length at one side, and being slitted for a part of its length longitudinally at the opposite side, the end adjacent the slit-

ted part having an interior circumferential groove therein for the purpose described, the
25 two parts between the slit and groove being constructed to spring together upon an inserted tube and bulb end, and a sliding ring movable longitudinally upon said case, the slitted end of the case being slightly larger
30 in exterior diameter than the interior diameter of the ring and having a circumscribing recess to receive the ring therein against casual displacement.

In testimony whereof I have affixed my
signature in presence of two witnesses.

EARL L. MUNCH.

Witnesses:

WM. S. BARBER,
SADIE BAILEY.