

No. 762,316.

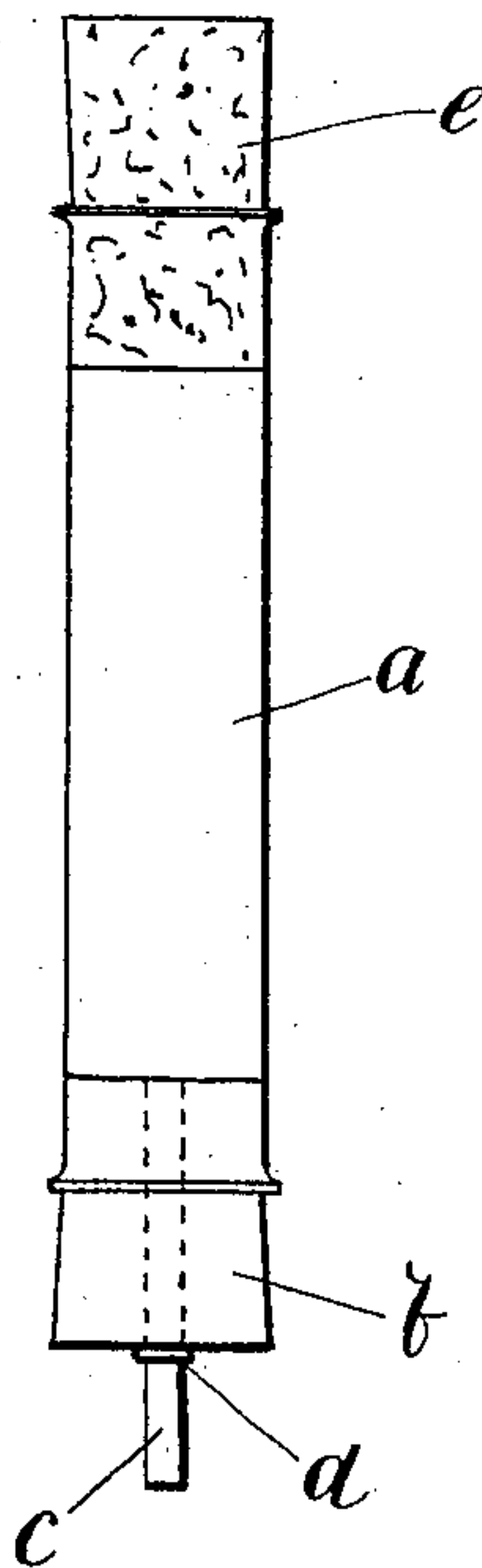
PATENTED JUNE 14, 1904.

H. KELSEY.

APPLIANCE FOR DELIVERING FLUIDS IN DROPS.

APPLICATION FILED DEC. 31, 1902.

NO MODEL.



Witnesses

E. M. Sweetser.

William Cossley

Inventor

Henry Kelsey

By. Hughes & Young

Attorneys.

UNITED STATES PATENT OFFICE.

HENRY KELSEY, OF WADHURST, ENGLAND.

APPLIANCE FOR DELIVERING FLUIDS IN DROPS.

SPECIFICATION forming part of Letters Patent No. 762,316, dated June 14, 1904.

Application filed December 31, 1902. Serial No. 137,604. (No model.)

To all whom it may concern:

Be it known that I, HENRY KELSEY, a subject of the King of the United Kingdom of Great Britain and Ireland, residing at Riseden, Wadhurst, in the county of Sussex, England, have invented new and useful Improvements in Appliances for Delivering Fluids in Drops, of which the following is a specification.

This invention relates to improvements in appliances for delivering fluids in drops, and is intended for use in pharmacy, chemical, and other experiments, photographic operations, distributing perfumes, and for any other purposes where it is desired to employ fluids tentatively and in comparatively minute quantities at a time.

In carrying my invention into effect I proceed in or in about the following manner, making reference to the accompanying drawing, which shows a side view: I provide a suitable length of tube *a*, made of glass or other suitable material. In one end of the tube *a* is a cork, rubber, or other stopper *b*, through which is passed a small tube *c*, having its inner end opening into the tube *a* and flush with the inner end of the stopper *b*. The tube *c* is of sufficient length to protrude beyond the outer end of the stopper *b* and may have a collar *d* formed and placed on it to prevent it being pushed too far through the stopper *b*. At the other end of the tube *a* is a second cork, rubber, or other stopper *e*.

To use the appliance, the stopper *e* is firmly fitted in and the other one, *b*, removed. The tube *a* is then partly filled with the required fluid and the stopper *b* firmly replaced.

By raising the stopper *c*, but not removing it, air will enter the tube *c* and bubble up through the fluid in the tube *a*. Then by gradually screwing down the stopper *e* the air will be compressed and cause the fluid to issue in drops from the tube *c*.

By entirely removing the stopper *e* the whole of the fluid will run out of the tube *c*.

When it is desired to put the appliance out of use while it contains fluid, the stopper *e* is raised, but not removed, the appliance held with the *b* stopper uppermost, the stopper *b* then removed, the stopper *e* tightened, and the stopper *b* replaced. The appliance can then be put away.

The appliance when out of use can be carried in a suitable case, in which provision may be made for absorbing any fluid which may escape from the appliance.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. An appliance for delivering fluids in drops the said appliance comprising a tube to contain the fluid to be employed; a snugly-fitting removable stopper at each end of the tube: an exit-tube of comparatively small diameter passed through one of the stoppers, the inner end of the said tube being flush with the inner end of the stopper through which it is passed and its outer end protruding beyond the outer end of the said stopper, substantially as described in the above specification.

2. In an appliance for delivering fluids in drops the combination of a tube to contain the fluid: a snugly-fitting removable stopper at each end of the tube: and an exit-tube passing through one of the said stoppers, substantially as described in the above specification.

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

HENRY KELSEY.

Witnesses:

I. H. KELSEY,
MARY KELSEY.