(No Model.)

A. N. RITZ.

RECEPTACLE FOR PASTE.

No. 572,617. Patented Dec. 8, 1896.

Fig. 1.

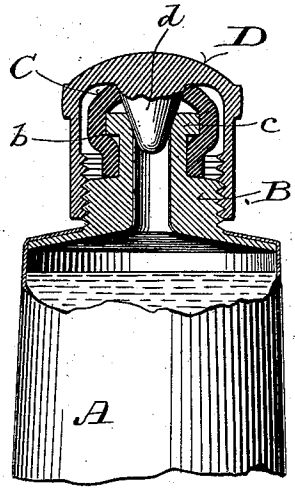


Fig. 2.

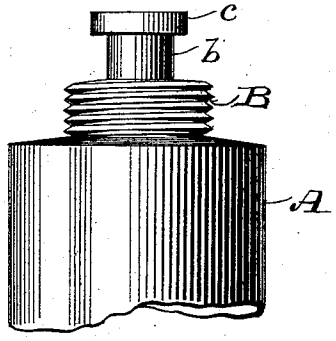
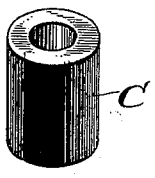


Fig. 3.



Witnesses:
Geo. W. Young,
N. E. Oliphant

Inventor:
August N. Ritz
By H. G. Underwood
Attorney.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

AUGUST N. RITZ, OF MILWAUKEE, WISCONSIN.

RECEPTACLE FOR PASTE.

SPECIFICATION forming part of Letters Patent No. 572,617, dated December 8, 1896.

Application filed October 28, 1895. Serial No. 567,086. (No model.)

To all whom it may concern:

Be it known that I, AUGUST N. RITZ, a citizen of the United States, and a resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Receptacles for Paste, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide a hermetic-sealing non-leaking squeeze-tube or other receptacle having a simple, economic, and efficient spreader for material ejected therefrom, said tube being especially designed as a package for paste or other adhesive substance.

In view of the foregoing the said invention consists in certain peculiarities of construction and combination of parts hereinafter set forth with reference to the accompanying drawings and subsequently claimed.

In the drawings, Figure 1 represents a partly-sectional view of a portion of a squeeze-tube embodying my improvements; Fig. 2, an elevation of the same, the cap and spreader being removed; and Fig. 3, a detail perspective view of the spreader.

Referring by letter to the drawings, A represents the spun-metal cylindrical body portion of a squeeze-tube having an exteriorly-screw-threaded nozzle B, that differs from those commonly employed to the extent of having a stem extension *b* beyond its thread for the usual screw-cap D, and this stem is preferably provided with an annular flange *c*, the latter being herein shown at the outer extremity of the nozzle.

In practice a section C of rubber tubing, primarily uniform as to diameter, is stretched onto the flanged stem portion of the nozzle, and being of sufficient length it constitutes a spreader for paste or other adhesive that may be ejected from the tube.

It is to be understood that my spreader is cut from rubber tubing of the ordinary commercial variety, sold in lengths to suit purchasers, and hence my invention does not contemplate any especially-constructed flexible nipple for use as a spreader.

It is obvious that contraction of the spreader C on the nozzle-stem *b* will hold it in place independent of other means, and by employing the flange *c* retention of said spreader is further insured for the reason that there is expansion of the same under said flange, as herein shown.

The screw-cap D for the nozzle is provided with a bore-closing plug *d*, and the latter comes snugly within spreader C when said cap is in working position. Hence a hermetic sealing of the tube is effected.

I prefer to taper the mouth of the nozzle B and provide it with a conical sealing-plug *d*, that, corresponding in taper to said mouth, snugly engages the same in order to effectually prevent leaking of the tube contents when cap D is positioned, this being one of the important advantages of my invention.

In order to insure a tight seat of the conical sealing-plug *d*, the screw-thread of the nozzle B and cap D is so proportioned that the latter may always be run far enough on said nozzle to insure the desired result.

While the nozzle, spreader, and cap have been set forth as especially applicable in connection with a squeeze-tube, they are also applicable to a non-collapsible receptacle.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A receptacle having a nozzle, and a section of rubber tubing, primarily uniform as to diameter, in stretch on the nozzle to constitute a spreader for material ejected from the receptacle.

2. A receptacle having a nozzle provided with a flanged stem extension, and a section of rubber tubing, primarily uniform as to diameter in stretch on said stem extension of the nozzle.

3. A receptacle having a nozzle, a section of rubber tubing, primarily uniform as to diameter, in stretch on the nozzle, and a nozzle-cap provided with a sealing-plug that comes within the spreader when said cap is positioned.

4. A squeeze-tube having its nozzle provided with a stem extended beyond the thread for the usual screw-cap, and a section of rubber tubing, primarily uniform as to diameter, in stretch on the stem.

5. A squeeze-tube having its nozzle provided with a flanged stem extended beyond the thread for the usual screw-cap, and a sec-

tion of rubber tubing, primarily uniform as to diameter, in stretch on the stem.

6. A squeeze-tube having a section of rubber tubing maintained on its nozzle to constitute a spreader for ejected material, and the nozzle-cap provided with a sealing-plug that comes within the spreader when said cap is positioned.

7. A squeeze-tube having a taper-mouth nozzle, a section of rubber tubing maintained on the nozzle to constitute a spreader for ejected material, and the nozzle-cap provided with a conical sealing-plug that comes within the spreader when said cap is positioned.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

AUGUST N. RITZ.

Witnesses:
N. E. OLIPHANT,
B. C. ROLOFF.