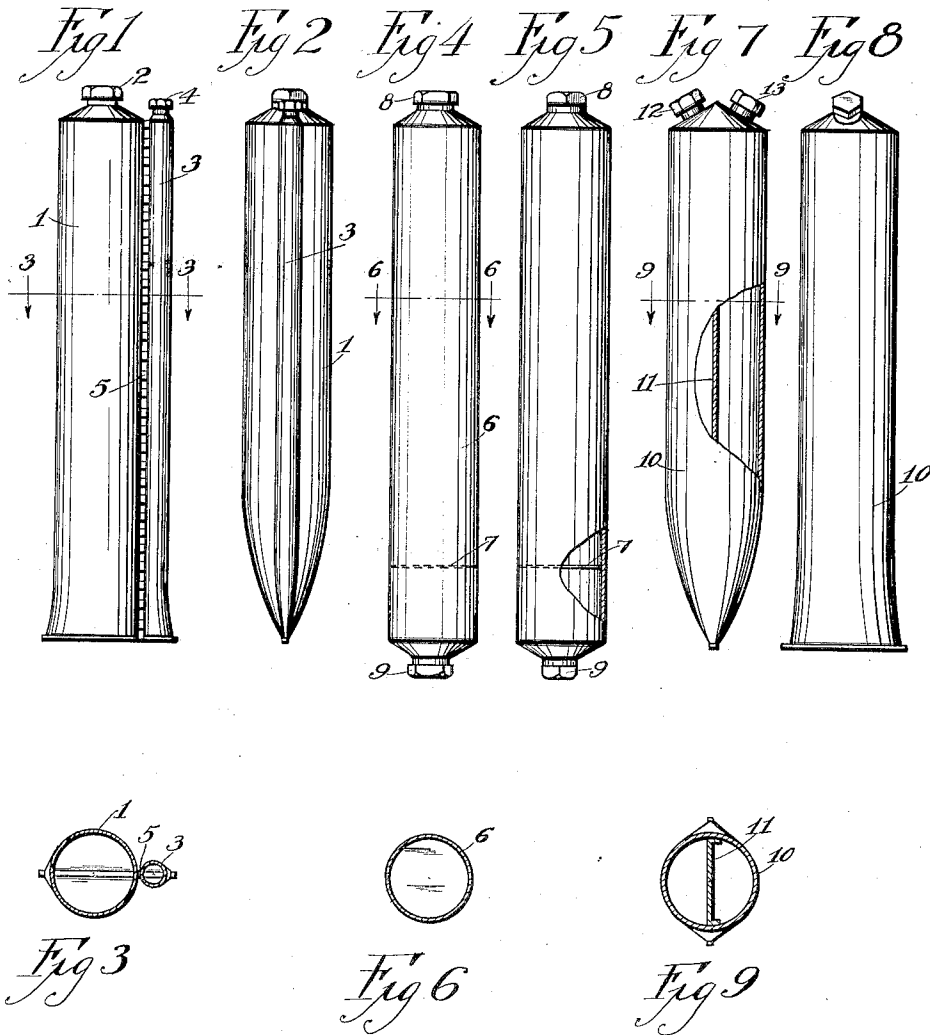


F. H. STEGATH.
 DUPLEX TUBE.
 APPLICATION FILED AUG. 13, 1919.

1,363,064.

Patented Dec. 21, 1920.



F. H. Stegath
 INVENTOR
 BY Munn & Co.
 ATTORNEY

UNITED STATES PATENT OFFICE.

FREDERICK HARTMAN STEGATH, OF ANN ARBOR, MICHIGAN.

DUPLEX TUBE.

1,363,064.

Specification of Letters Patent.

Patented Dec. 21, 1920.

Application filed August 13, 1919. Serial No. 317,243.

To all whom it may concern:

Be it known that I, FREDERICK H. STEGATH, a citizen of the United States, and a resident of the city of Ann Arbor, in the county of Washtenaw and State of Michigan, have invented a new and useful Improvement in Duplex Tubes, of which the following is a full, clear, and exact description.

My invention relates to improvements in tubes for containing liquid, semi-liquid or plastic matter, and it consists in the combinations, constructions and arrangements herein described and claimed.

It often happens that one has to use two preparations, such as a shaving cream and a lotion, in succession, and many times the container for one or the other will be missing.

An object of the present invention is to provide a duplex tube which may hold two preparations, so that both preparations may be always found together.

A further object of my invention is to provide a novel form of duplex tube in which either preparation may be used without any danger of contamination with the other.

A further object of my invention is to provide a simple device of the type described which is relatively cheap to manufacture.

Other objects and advantages will appear in the following specification, and the novel features of the invention will be particularly pointed out in the appended claims.

My invention is illustrated in the accompanying drawings, forming part of this application, in which

Figure 1 is a face view of a duplex tube, constructed according to my invention,

Fig. 2 is a side elevation at right angles to Fig. 1,

Fig. 3 is a section along the line 3—3 of Fig. 1,

Fig. 4 is a face view of a modified form of Fig. 2,

Fig. 5 is a side elevation of the form shown in Fig. 4,

Fig. 6 is a sectional view along the line 6—6 of Fig. 4,

Fig. 7 is a face view of another modified form,

Fig. 8 is a side view of the form shown in Fig. 7, and

Fig. 9 is a sectional view along the line 9—9 of Fig. 7.

In carrying out my invention, I preferably use a collapsible form of tube, such as is used for tooth pastes, etc. In the drawing, one of these tubes is shown at 1, being provided with a screw cap 2 for covering the discharge opening. Secured to the tube 1 is a compartment or tube 3, having a cap 4. The tubes 1 and 3 are joined at 5 by a perforated integral connecting piece, so that the tubes 1 and 3 form in fact a unitary structure, having two compartments, and being provided with two discharge openings. In Fig. 1, the tube or compartment 3 is smaller than the compartment 1, the discharge opening in the cap being relatively proportioned. In Figs. 4 and 5, I have shown a tube 6 of cylindrical cross section, having a partition 7 near one end, thus providing two compartments, a larger and a smaller compartment, each having its own discharge opening, these openings being at the ends of the tube, and being covered by screw caps 8 and 9 respectively. In Figs. 7 to 9 inclusive, I have shown another modified form, in which the body portion 10 of the tube is divided by a longitudinally extending partition 11, thus forming two semi-cylindrical compartments. In this case, the compartments are of equal capacity, and the discharge openings are covered with screw caps 12 and 13 respectively.

In the use of this device, each compartment in the duplex tube may be filled with a paste or liquid, the two compartments being disposed in the unitary structure, and the two preparations are always at hand wherever the tube may be.

In the form of the device shown in Figs. 1 and 2, either tube may be rolled up independently of the other by tearing the perforated connecting piece 5. This perforated connecting piece therefore serves a double function; to-wit, as a connecting member for holding the two tubes together, the perforations forming means by which the tubes may be rolled up independently.

I claim:

1. In a receptacle, a pair of flexible metal tubes disposed in parallel relation, and means for attaching the tubes together along their adjacent edges, said means comprising a perforated retaining strip adapted to be

torn to permit each tube to be rolled up independently.

2. In a receptacle, a plurality of flexible metal tubes for containing plastic or liquid matter disposed in parallel relation, removable closures for each tube, means for attaching the tubes together along their adjacent edges, said means comprising a perforated metal retaining strip adapted to be torn to permit each tube to be rolled up independently.

3. In a device of the type described, a plurality of flexible metal tubes disposed in parallel relation, each tube having a discharge opening, a removable air-tight closure for each discharge opening, and means for attaching the tubes together along their adjacent edges, said means comprising a retaining strip having longitudinal perforations and being adapted to be torn to permit each tube to be rolled up independently.

FREDERICK HARTMAN STEGATH.