No. 897,970. PATENTED SEPT. 8, 1908.

M. FAUST.

COLLAPSIBLE TUBE AND THE LIKE.

APPLICATION FILED APR. 13, 1907.

Fig. 1.

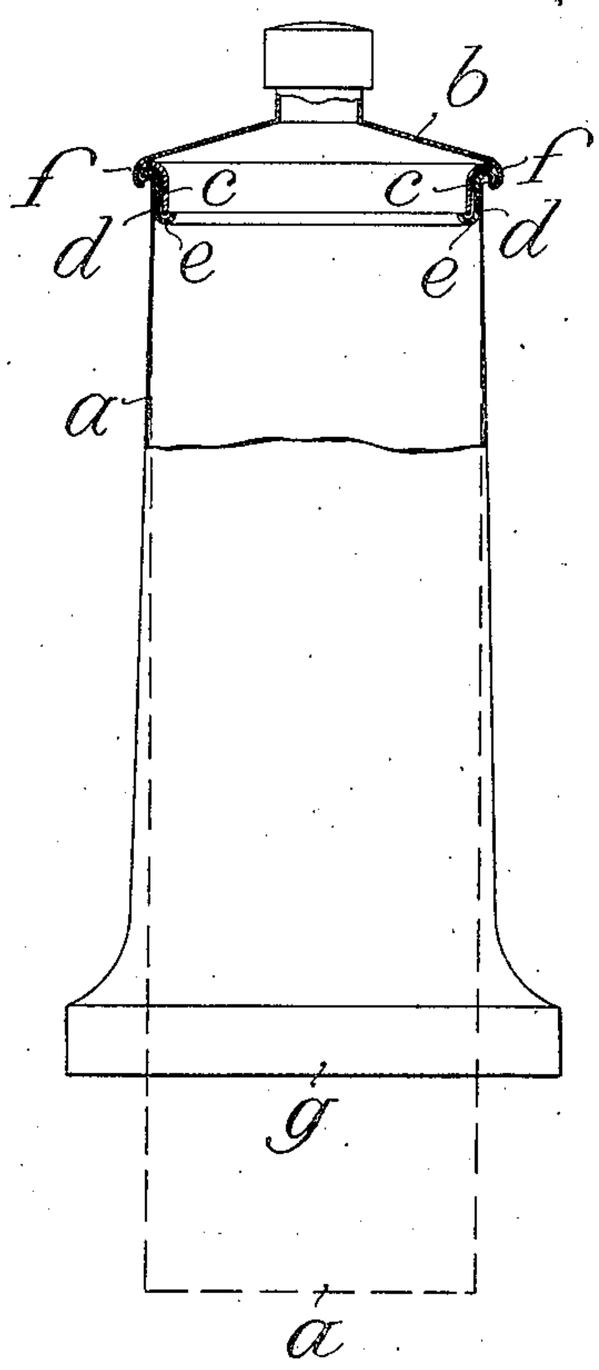

Fig. 3.

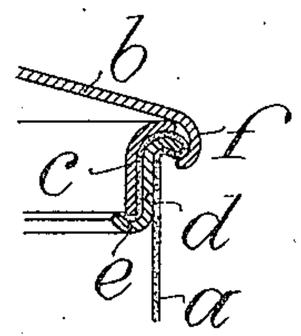

Fig. 2.

Witnesses:

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UNITED STATES PATENT OFFICE.

MORITZ FAUST, OF BERLIN, GERMANY.

COLLAPSIBLE TUBE AND THE LIKE.

No. 897,970. Specification of Letters Patent. Patented Sept. 8, 1908.

Application filed April 13, 1907. Serial No. 367,944.

To all whom it may concern:

Be it known that I, MORITZ FAUST, citizen of the German Empire, residing at Berlin, Germany, have invented certain new and useful Improvements in or Relating to Collapsible Tubes and the Like; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to tubes intended to receive paste, colors, powders and the like tubes which tubes consist of an impermeable casing or body of paper or like material provided with a metal head carried on a rigid wall.

The object of this invention is to insure an absolutely tight joint at the point where the body of the tube is connected to the metal head.

A construction of a tube according to this invention is illustrated by way of example in the accompanying drawing in which,

Figure 1 is an elevation of the tube, partly in section, Fig. 2 a detail view of the lower end of the tube and Fig. 3 a detail view of the tube head in vertical section.

According to this invention the upper end of the paper tube *a* is jammed fast between two rings *c* and *d* one of which is adapted to fit into the other. The paper is first placed over the upper edge of the outer ring *d* and then forced against the said ring by introducing the inner ring *c*. The outer ring is preferably provided at its lower edge with an inwardly projecting annular flange *e* against which the lower edge of the inner ring *c* rests.

After the upper end of the paper casing *a* has been stiffened in this manner, the metal head *b* is connected to it, preferably by turning over its outer edge. Owing to the upper end of the paper tube *a* being jammed fast by the pressure applied, between the flange *f* of the head *b* and the rings *c d*, an absolutely tight connection is insured between the body of the tube and the head, which prevents all possibility of the contents of the tube escaping at the joint.

The lower end of the body of the tube *a*, after the tube has been filled, is preferably rolled into a sheet metal strip *g* which not only serves as a closure for the tube but enables the lower end to be unrolled in a uniform manner if desired that is to say it takes the place of the tube key generally used for the purpose. The connection between the upper end of the tube and the metal head can also be effected in some way other than turning over, for instance the metal head may be screwed on to the stiffened edge of the paper casing a suitable screw thread being provided.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. The combination, with a ring having an outwardly extending rim, a flexible tubular body embracing the ring with its upper extremity and extending over its rim and down inside the same, and a second ring arranged tightly within the first ring and to clamp the tubular body therebetween, of a rigid head embracing the open end of the thus stiffened tubular body and having an inwardly extending rim to engage the rim of the first ring.

2. The combination, with a ring having an outwardly extending rolled rim, a flexible tubular body embracing the ring with its upper extremity and extending over its rim and down inside the same, and a second ring having an outwardly rolled rim and arranged tightly within the first ring and to clamp the tubular body therebetween, of a rigid head embracing the open end of the thus stiffened tubular body and having an inwardly extending rim to engage the rim of the first ring.

3. The combination, with an S-shaped ring with outwardly and inwardly rolled rims, a flexible tubular body embracing the ring with its upper extremity and extending over its outwardly rolled rim and down inside the same, and a second ring arranged tightly within the first ring to clamp the tubular body therebetween, of a rigid head embracing the open end of the thus stiffened tubular body and having an inwardly extending lower rim to engage with the outwardly rolled rim of the said ring and body.

4. The combination, with an S-shaped ring with outwardly and inwardly rolled rims, a flexible tubular body embracing the ring with its upper extremity and extending over its outwardly rolled rim and down inside the same into the trough formed by the inwardly rolled rim, and a second ring having an outwardly rolled rim and arranged tightly within the first ring with its rim overlying

the outwardly rolled rim of the first ring to clamp the tubular body therebetween, of a rigid head embracing the open end of the thus stiffened tubular body and having an inwardly extending lower rim to engage with the outwardly rolled rim of the said ring and body.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

MORITZ FAUST.

Witnesses:
WOLDEMAR HAUPT,
HENRY HASPER.