

No. 683,410.

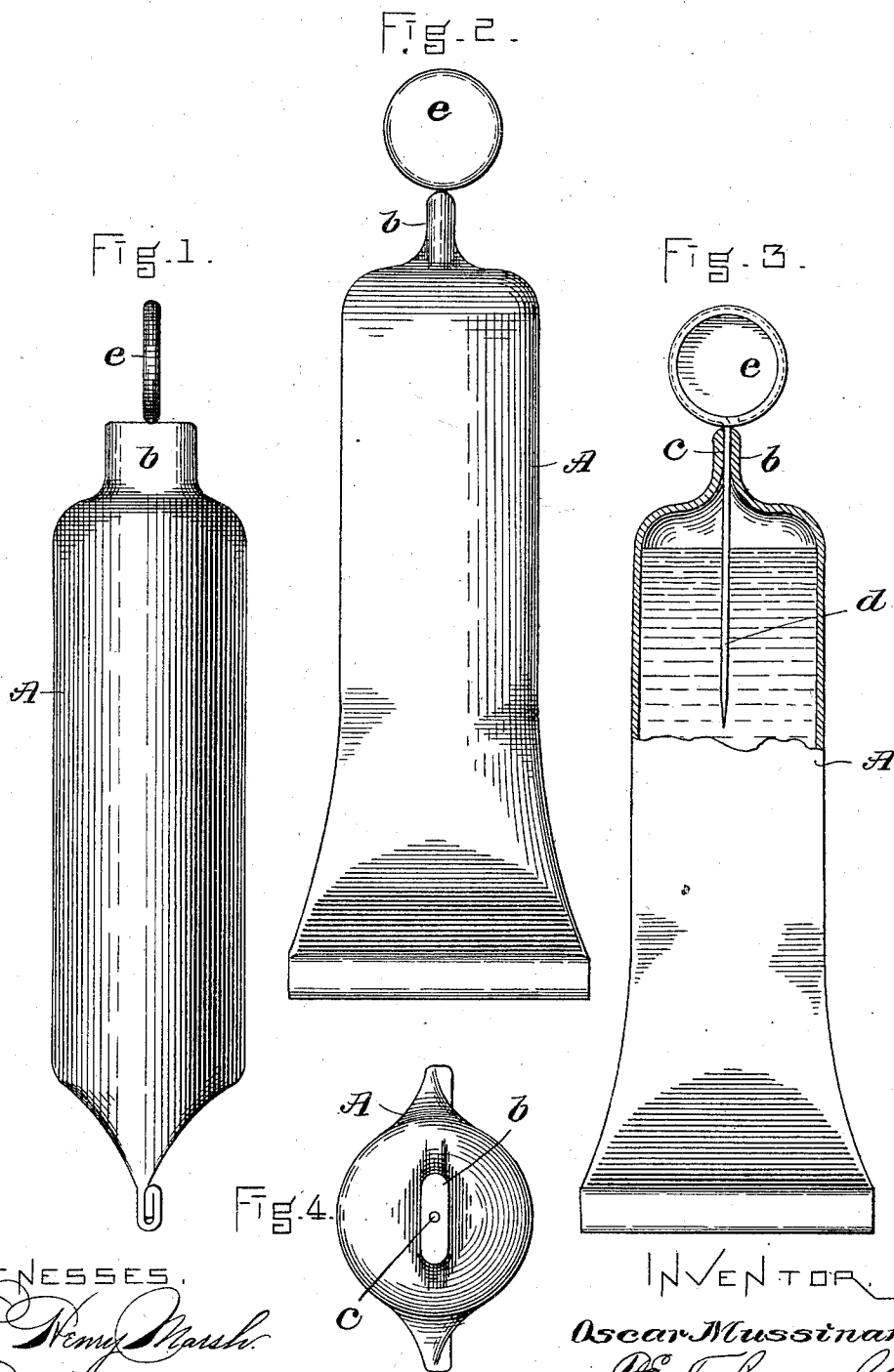
Patented Sept. 24, 1901.

O. MUSSINAN.

COLLAPSIBLE TUBE FOR CONTAINING SEMILIQUID SUBSTANCES.

(Application filed July 17, 1901.)

(No Model.)



WITNESSES.

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Att'y.

UNITED STATES PATENT OFFICE.

OSCAR MUSSINAN, OF NEW YORK, N. Y., ASSIGNOR TO DENNISON MANUFACTURING COMPANY, OF BOSTON, MASSACHUSETTS.

COLLAPSIBLE TUBE FOR CONTAINING SEMILIQUID SUBSTANCES.

SPECIFICATION forming part of Letters Patent No. 683,410, dated September 24, 1901.

Application filed July 17, 1901. Serial No. 68,680. (No model.)

To all whom it may concern:

Be it known that I, OSCAR MUSSINAN, a citizen of the United States, residing at New York, in the county and State of New York, have invented certain new and useful Improvements in Collapsible Tubes for Containing Semiliquid Substances, of which the following is a specification.

My invention relates to collapsible metal tubes for containing semiliquid substances, such as glue, mucilage, paste, paint, &c.; and my invention consists in a tube of this character provided with a nozzle having a discharge-aperture adapted to be sealed by a pin or similar device which serves as a stopper and which can be readily removed and replaced at will, said stopper effectually preventing any liability of the oozing out of the contents of the tube when not in use, and said nozzle also serving as a brush to spread and distribute the liquid over the surface to which it has been applied.

In the accompanying drawings, Figures 1 and 2 are side elevations of my improved collapsible tube. Fig. 3 is a sectional elevation of the tube. Fig. 4 is a top view of the tube with the pin-stopper removed.

In the said drawings, A represents a collapsible tube composed, as usual, of tin or other suitable metal and adapted to contain semiliquid substances, such as glue, mucilage, paste, paint, &c. This tube in the process of manufacture is drawn and shaped so that its head will form a flattened nozzle *b*, as shown in Figs. 1 and 4. This nozzle *b* is provided, preferably at the center, with a small circular discharge-aperture *c*, as shown in Figs. 3 and 4, for the reception of a long pin *d*, which serves as a seal or stopper for tightly closing said aperture, said pin being provided with a head *e* of suitable shape, preferably a round disk, to facilitate the removal

and insertion of the pin, which extends down into the liquid, and by moving this pin up and down it will free the aperture and prevent the clogging or obstruction of the same.

The aperture *c* as originally formed is of slightly less diameter than that of the pin or stopper *d*, thus insuring a tight fit when it is first inserted before the tube is filled at its large open end, whereby when said end is closed by folding over the metal in the usual manner, which produces a pressure upon the contents of the tube, all liability of the liquid oozing from the aperture *c* is effectually prevented. When the pin or stopper is removed, a slight pressure on the tube will produce a suitable flow through the discharge-aperture *c* of the liquid contents of the tube, which can then be readily spread and distributed at will over the surface to which it is applied by means of the flattened nozzle *b*, acting as a brush.

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

1. A collapsible metal tube provided with a flattened rigid nozzle having a discharge-aperture and adapted to serve as a brush for spreading the contents of the tube, in combination with a pin provided with a head and serving as a seal or stopper.

2. A collapsible metal tube provided with a flattened rigid nozzle having a discharge-aperture and adapted to serve as a brush for spreading the contents of the tube, in combination with a pin provided with a head and serving as a seal or stopper, said pin extending down into the liquid contents of the tube.

Witness my hand this 11th day of July, A. D. 1901.

OSCAR MUSSINAN.

In presence of—

P. E. TESCHEMACHER,
F. B. SPAULDING.