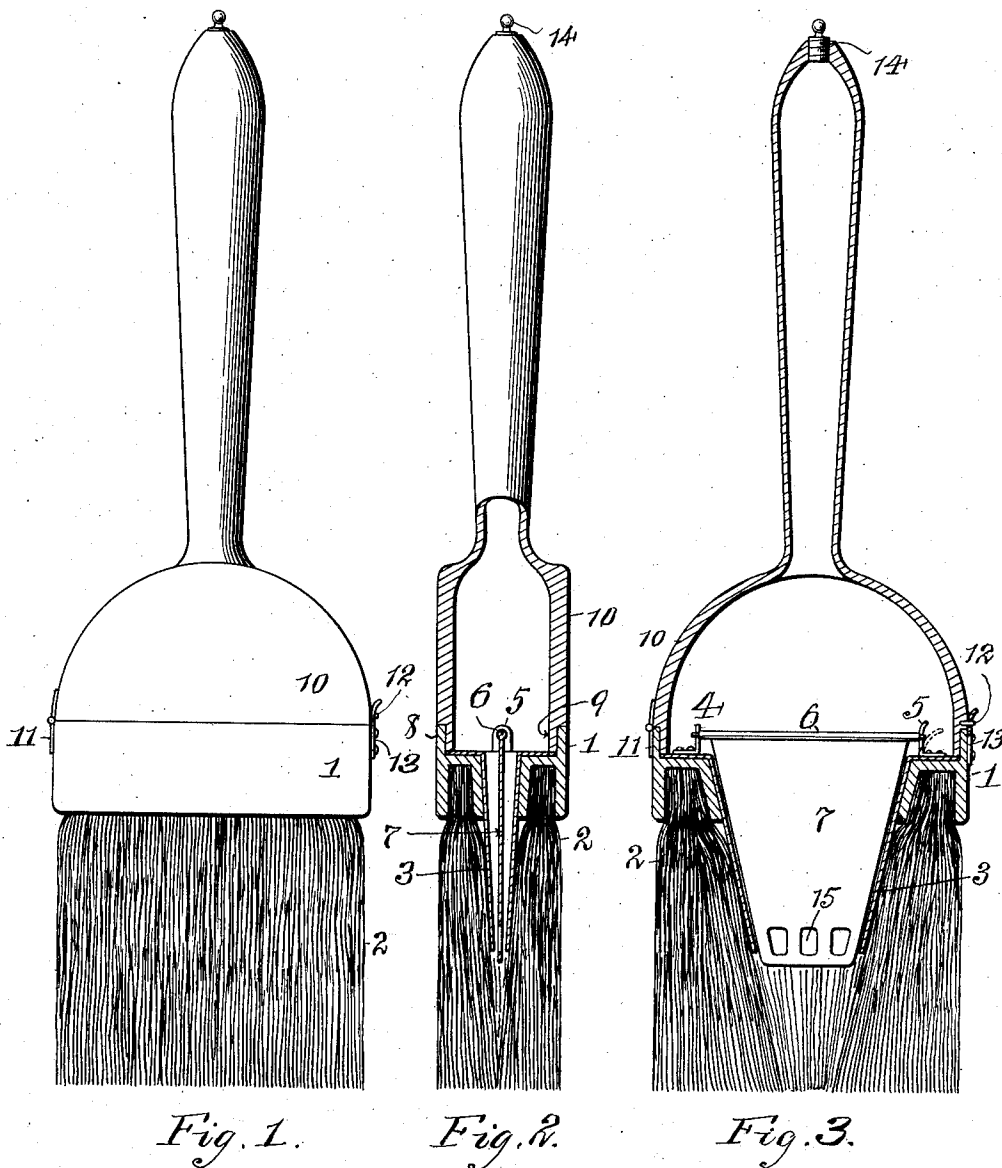


T. WATANABE.
FOUNTAIN PAINT BRUSH.
APPLICATION FILED SEPT. 23, 1911.

1,026,010.

Patented May 14, 1912.



Witnesses:
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UNITED STATES PATENT OFFICE.

TETSUSABURO WATANABE, OF NEW YORK, N. Y.

FOUNTAIN PAINT-BRUSH.

1,026,010.

Specification of Letters Patent.

Patented May 14, 1912.

Application filed September 23, 1911. Serial No. 650,946.

To all whom it may concern:

Be it known that I, TETSUSABURO WATANABE, a subject of the Emperor of Japan, residing at New York, in the county of New York and State of New York, have invented a certain new and useful Improvement in Fountain Paint-Brushes, of which the following is a specification.

The invention is a fountain paint brush, and comprises a brush, a paint reservoir thereon, an inverted frusto pyramidal tube leading the paint from said reservoir to the bristles in the stock, and a plate suspended in said tube and operated by the wiping motion of the brush in applying paint, for causing a flow of said paint from said reservoir to the bristles.

The construction is such that while the brush is not in use, no air can get into the reservoir, which is preferably in the handle, and hence there is practically no leakage therefrom. As soon as the brush is operated, then the plate in the delivery tube is swung to and fro to permit air to enter the reservoir, and also to keep the opening free.

The term "bristles" hereinafter used, includes any hair, fiber, wire, or other material, in common use for brush making.

In the accompanying drawings—Figure 1 is a side elevation, and Figs. 2 and 3 are, respectively, longitudinal sections of my brush taken in transverse planes.

Similar numbers of reference indicate like parts.

1 is the stock, in which the bristles 2 are secured in any suitable way. In said stock is an opening in which is the frusto pyramidal delivery tube 3. Supported in lugs 4, 5 on the upper side of the stock and across the tube 3 is a bar 6, from which is suspended a plate 7 which passes through the contracted lower opening of tube 3 and extends for a distance below said opening. On the upper side of the stock is a flange 8 which receives a flange 9 on the handle 10. Said handle is hinged at 11 to the flange 8, and when closed down upon said flange is secured by a projection 12 entering an aperture in spring catch 13. At the extremity of the handle is a screw plug 14.

In operation, the handle is adjusted in place on the stock, the screw plug 14 is re-

moved, and the handle is filled with liquid paint. Screw plug 14 is then replaced. The brush is then used in the ordinary way. As the bristles wipe over the surface to be covered, the protruding end of plate 7 is moved from side to side, thus swinging said plate to and fro in the opening at the end of tube 3. This causes the paint to flow from tube to bristles, since the effect is both to admit air to the reservoir from the handle and to keep the opening free, so that the outflow of paint to the brush is gradual and continues as long as the plate 7 is kept in motion. When the brush is not in use, practically no air can enter the handle, and hence the paint flow ceases.

In order to prevent trapping of the paint between one side of the plate 7 and tube 3, I provide in said plate and near the bottom thereof openings 15.

In another application for Letters Patent, Serial No. 650,945 filed simultaneously herewith, I have claimed broadly a paint brush, comprising a stock for bristles or the like, a paint reservoir carried thereby entering among said bristles and having a tubular extension, and means in said extension operable by the wiping motion of the brush in applying paint, for causing a flow of paint from said reservoir to said bristles.

I claim:

1. A paint brush, comprising a stock for bristles, an open inverted frusto pyramidal tube disposed in an opening in said stock and entering among said bristles, a plate suspended at its edge from said stock and extending through and protruding below said tube, and a paint reservoir detachably secured to said stock and communicating with said tube.

2. A paint brush, comprising a stock for bristles, an open inverted frusto pyramidal tube disposed in an opening in said stock and entering among said bristles, a plate suspended at its edge from said stock and extending through and protruding below said tube, and a hollow handle having an enlargement hinged to and covering said stock and internally communicating with said tube.

3. A paint brush, comprising a stock for bristles, an open inverted frusto pyramidal

tube disposed in an opening in said stock
and entering among said bristles, a plate
suspended at its edge from said stock and
extending through and protruding below
5 said tube and having an opening near its
lower portion, and a paint reservoir detach-
ably secured to said stock and communi-
cating with said tube.

In testimony whereof I have affixed my
signature in presence of two witnesses.

TETSUSABURO WATANABE.

Witnesses:

GERTRUDE T. PORTER,
MAY T. MCGARRY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
