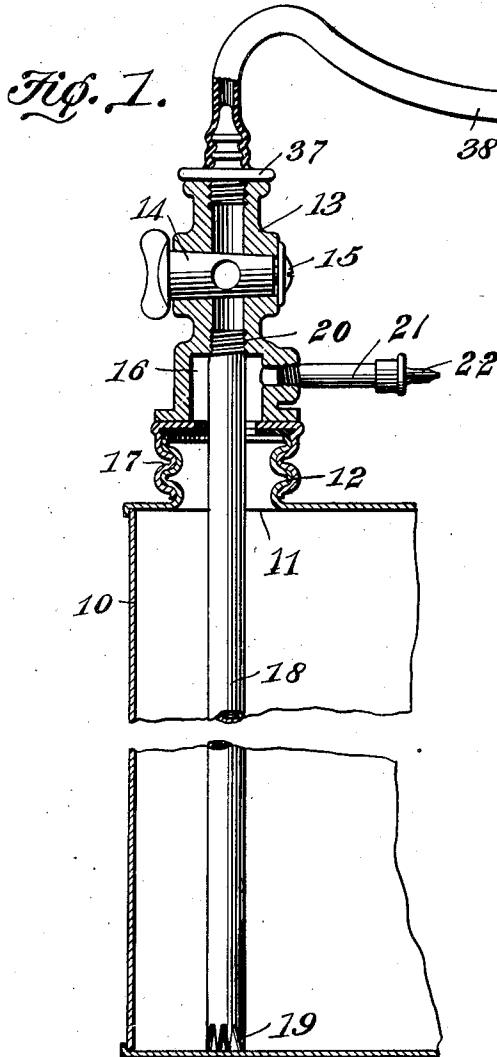
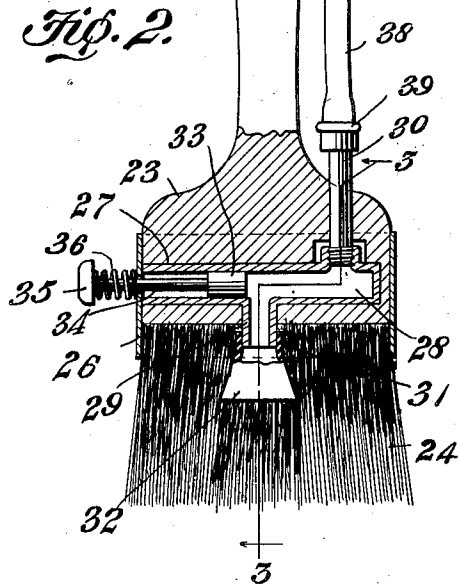
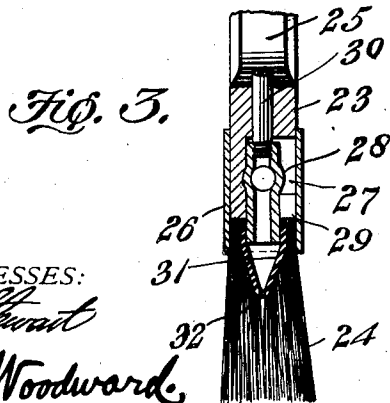


No. 821,879.

PATENTED MAY 29, 1906.

G. MEYER & C. G. BRAUN.
FOUNTAIN PAINT BRUSH.
APPLICATION FILED NOV. 22, 1905.



WITNESSES:

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UNITED STATES PATENT OFFICE.

GOTTFRIED MEYER AND CHARLES G. BRAUN, OF PHILADELPHIA,
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FOUNTAIN PAINT-BRUSH.

No. 821,879.

Specification of Letters Patent.

Patented May 29, 1906.

Application filed November 22, 1905. Serial No. 288,563.

To all whom it may concern:

Be it known that we, GOTTFRIED MEYER and CHARLES G. BRAUN, citizens of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and useful Fountain Paint-Brush, of which the following is a specification.

This invention relates to fountain paint-brushes, and has for its object to improve the construction and increase the efficiency and utility of devices of this character.

With these and other objects in view, which will appear as the nature of the invention is better understood, the invention consists in certain novel features of construction, as hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which corresponding parts are denoted by like designating characters, is illustrated the preferred form of the embodiment of the invention capable of carrying the same into practical operation, it being understood that various changes in the form, proportion, and minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention within the scope of the appended claims.

In the drawings, Figure 1 is a sectional elevation of a portion of the reservoir for the paint with the combined air-supply mechanism and outlet-valve connected thereto. Fig. 2 is a sectional view of the fountain-brush. Fig. 3 is a sectional view of the brush on the line 3-3 of Fig. 2.

The improved device comprises a reservoir or tank for the supply of paint having a relatively large discharge-aperture, a valve-casing having a valve and provided with an air-chamber and with means for detachably connecting the air-chamber over the aperture, an air-pipe through which compressed air is supplied and connected into the air-chamber, a brush having a tubular member in its head, a flexible web connected to the tubular member and terminating among the bristles of the brush, a plunger operating in the tubular member and operative by the hand that holds the brush to control the flow of the paint, and a flexible tube between the valve-casing and the tubular member in the brush-head.

The reservoir portion of the device may be of any required size, as at 10, and is provided with a relatively large discharge-aperture 11, preferably with a threaded tubular projection 12, surrounding the aperture.

The valve-casing is represented at 13 with the valve-plug 14 of approved form and secured in place by a screw 15, so that the plug may be readily detached when required. Depending from the casing 13 is an air-chamber 16 and provided with a threaded shell 17 for engaging the threaded tubular portion 12, surrounding the aperture 11. By this means it is obvious that the valve-casing, with its valve-chamber, may be readily coupled to and uncoupled from the reservoir 10.

Detachably connected to the valve-casing and extending therethrough the chamber 16 and into the reservoir 10 is a pipe 18, which at its lower end bears upon the bottom of the reservoir and is provided with lateral apertures 19, as shown in Fig. 1. The tube 18 is preferably threaded into the valve-casing, as at 20, so that it can be readily detached when required. Leading into the chamber 16 is an air-pipe 21, having a check-valve, (indicated at 22,) the pipe 21 providing means for coupling an air-pump to supply a pressure to the chamber and thence to the space above the paint in the reservoir.

The brush portion of the device comprises the head 23, bristles 24, handle 25, and the inclosing sheet-metal band or casing 26, the latter extending around the head portion and extending over the upper part of the bristles. Formed in the head portion 23 of the brush and extending transversely of the same is a recess 27, opening through one side of the head and closed by the casing 26. Within the recess 27 is disposed a tubular member 28, having a depending branch 29 and with a feed-tube 30, connected thereto preferably near one end and leading outwardly through the head. Attached to the branch 29 is a flexible tubular web 31 with spaced sides and converging or flattened toward the discharge end 32 and extending among the bristles 24, as shown more clearly in Figs. 2 and 3. Slidably disposed in the tubular member 28 is a plunger 33, having a stem 34, projecting through the casing 26 and terminating in a knob 35. A spring 36 surrounds the stem 34 and operates to maintain the plunger 33 yieldably in withdrawn position or with the

entrance to the branch 29 and flexible web 31 uncovered. The valve-casing 13 is provided with a threaded coupling member 37, to which one end of a hose 38 is connected, the other end of the hose being coupled to the outer end of the feed-pipe 30, as at 39. By this means when the plunger 33 is in withdrawn position, as in Fig. 1, communication is open between the conductor or hose 38 and the discharge-web 31 32; but when the stem 34 is pushed inwardly by pressure upon its knob 35 the plunger will cut off the flow.

The knob 35 is disposed in convenient position for the fore or index finger of the hand which holds the brush, and the valve or plunger 33 can thus be easily maintained in its closed or inward position and the supply of paint cut off when not required.

The air-pressure causes the paint to flow to the brush no matter in what position the latter may be held and the flow is under complete control of the operator, as above noted.

All the parts of the valve and its attachments are readily detachable for cleansing, which will be required when changing from one color or quality of paint to the other.

The hose 38 is also readily detachable when required for cleansing after using.

Having thus described the invention, what is claimed is—

1. In a device of the class described, a brush having a transverse recess in the head portion, a tubular member within said recess, a web of flexible material depending from said tubular member and with the sides converging to the discharge end and disposed among the bristles of the brush, said tubular member provided with an outlet communicating with the interior of the flexible web, a feed-tube connected to said tubular member and leading outwardly from said brush-head, a plunger slidable in said tubular mem-

ber and adapted to cut off the flow of the material therefrom, and means for supplying paint under pressure to the feed-tube. 45

2. In a device of the class described, a brush having a transverse recess in the head portion and opening outwardly therefrom, a tubular member within said recess, a casing of sheet metal inclosing said head portion and closing said recess, a web of flexible material depending from said tubular member and with the sides converging to the discharge end and disposed among the bristles of the brush, a feed-tube connected to said tubular member and leading outwardly through said brush-head, a plunger slidable in said tubular member and adapted to cut off the flow of the material therefrom, and means for supplying paint under pressure to the feed-tube. 60

3. In a device of the class described, a brush having a transverse recess in the head portion, a tubular member within said recess, a branch depending from said tubular member, a tubular web depending from said branch and with the sides converging to the discharge end and disposed among the bristles of the brush, a feed-tube connected to the tubular member, a plunger slidable in said tubular member and adapted to cut off the flow of the material therefrom and with an operating-stem extending beyond the head portion, a spring operating to maintain said plunger and stem yieldably in withdrawn position, and means for supplying paint under pressure to the feed-tube. 75

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

GOTTFRIED MEYER.
CHARLES G. BRAUN.

Witnesses:

DAVID McCABE,
G. W. ATHERHOLT.