R. HAINSEY.

FOUNTAIN PAINTBRUSH.

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1,342,211.

Patented June 1, 1920.

Fig. 3.

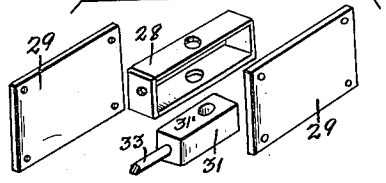
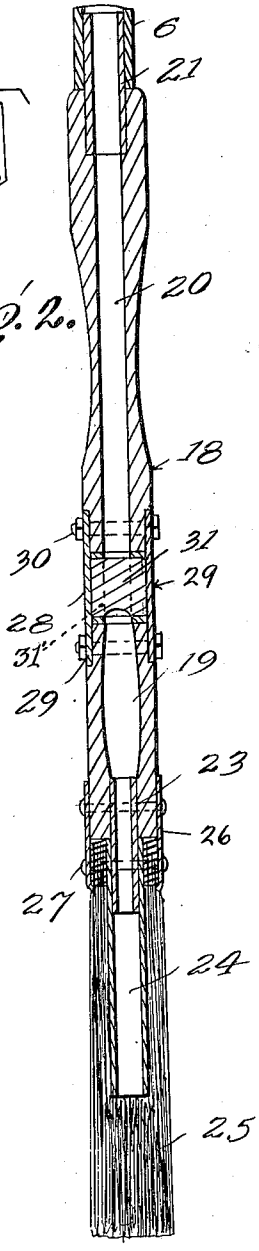


Fig. 1.

Fig. 2.



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FOUNTAIN-PAINTBRUSH.

1,342,211. Specification of Letters Patent. Patented June 1, 1920.

Application filed March 6, 1917. Serial No. 152,826.

To all whom it may concern:

Be it known that I, ROBERT HAINSEY, a citizen of the United States, and resident of Altoona, in the county of Blair and State of Pennsylvania, have invented certain new and useful Improvements in Fountain-Paintbrushes, of which the following is a specification.

This invention relates to an improved fountain brush for use with a painting apparatus.

The invention has for its principal object to provide a brush of this character whereby a continuous flow of paint will be had through the brush, thus facilitating the painting or coating operation, and obviating the dipping of the brush into a paint containing receptacle.

Another object of the invention is to provide a novelly constructed brush, the same being supplied with paint whereby the paint will be evenly distributed onto the bristles thereof, thus preventing "streaking."

Another important feature of the invention resides in the provision of means for governing the supply of paint to the bristles of the brush, thereby permitting coats of varying thickness to be applied to objects.

Among other aims and objects of the invention may be recited, the provision of an apparatus of the character mentioned with a view to compactness, and in which the number of parts are few, the construction simple, the cost of production small, and efficiency and operation high.

All of the foregoing together with additional advantageous details and arrangements of parts of the preferred embodiment of my invention will be clear from the specific description hereinafter contained when read in connection with the accompanying drawings forming a part thereof, wherein said embodiment of the invention is illustrated for the purpose of facilitating a full understanding of the present improvements.

In the drawings:

Figure 1 is a longitudinal section through the brush constructed in accordance with the invention;

Fig. 2 is a similar section taken at right angles to Fig. 1; and

Fig. 3 is a disassembled perspective of the improved cut off means for governing the passage of paint to the bristles of the brush.

Referring to the drawing in detail 18 designates a hollow brush stock or head having a chamber 19 therein which communicates with a way or passage 20 extending longitudinally of the handle of said head or stock and through this way is introduced a liquid paint to the brush, the outer extremity of the way 20 being fitted with a nipple 21 whereby the free end of a flexible conduit 5 may be engaged therewith for conveying the liquid paint from the source of supply to said chamber in the stock or head.

A plurality of longitudinally disposed ducts 22 communicate with the chamber 19 and have sleeves 23 fixedly secured therein, whereby the paint or other coating material may be conducted from the said chamber 19 therethrough into flexible tubes 24 as engaged with the same thence delivered onto the bristles 25 of the brush. A band 26 is arranged about the lower portion of the brush head and obviously, serves as means for securing the bristles 25 thereto, it being noted that rivets 27 or other suitable fastening devices are passed through the same into engagement with the brush. A substantially rectangularly shaped opening is formed through the brush head to one side of the chamber 19 and is adapted to receive therein a similarly shaped casing 28, the casing being provided with cover plates 29 whereby the same is closed and secured in position upon the brush by bolts 30 or the like. A valve 31 is slidably arranged within the casing 28 and is provided with a port 31′ normally maintained out of register or in closed position with relation to the passage 20 by means of an expansible coiled spring 32 interposed between one end of the valve and the adjacent end of the said casing 28. An operating rod 33 extends laterally from the valve 31 and carries upon its outer end a finger piece 34, whereby to facilitate depression of the same, it being understood that the said rod extends through a suitable opening formed in the brush head.

The passage of paint from the source of supply may be controlled by operating the valve 5 to the desired extent. The paint supplied to the bore 20 of the brush handle may be fed into the bristles of the brush at will by the operator, who, by depressing the operating rod 33 will move the port 31′ in the valve into register or partial register with the said passage, thereby permitting passage of the paint into the chamber 19 and from there through the tubes 24 into the brush bristles. By arranging a series of the tubes

24, the paint will be evenly distributed to the brush bristles and thence, streaking of the object being coated will be prevented. Further, leaking of the paint from the brush subsequent to the cutting off of the flow from the source of supply will be prevented, by reason of the fact that the expansible coiled spring 32 normally maintains the valve 31 in its closed position.

Obviously, the construction shown is capable of considerable modification and such modification as is within the scope of my claim, I consider within the spirit of my invention.

I claim:

A fountain paint brush including a head having bristles at one end and a handle at the other end, said head and handle having a longitudinally directed passage therethrough for paint and communicating with the bristles and said head formed with a transverse opening with which the passage communicates, a casing open at the sides and disposed within said transverse opening and provided with openings registering with the passage, cover plates bearing over the open sides of the casing and attached to the head, a valve movable within the casing and in contact with the cover plates and having a port registering with the openings in the casing when in one position, and means for actuating said valve.

In testimony whereof, I affix my signature hereto.

ROBERT HAINSEY.