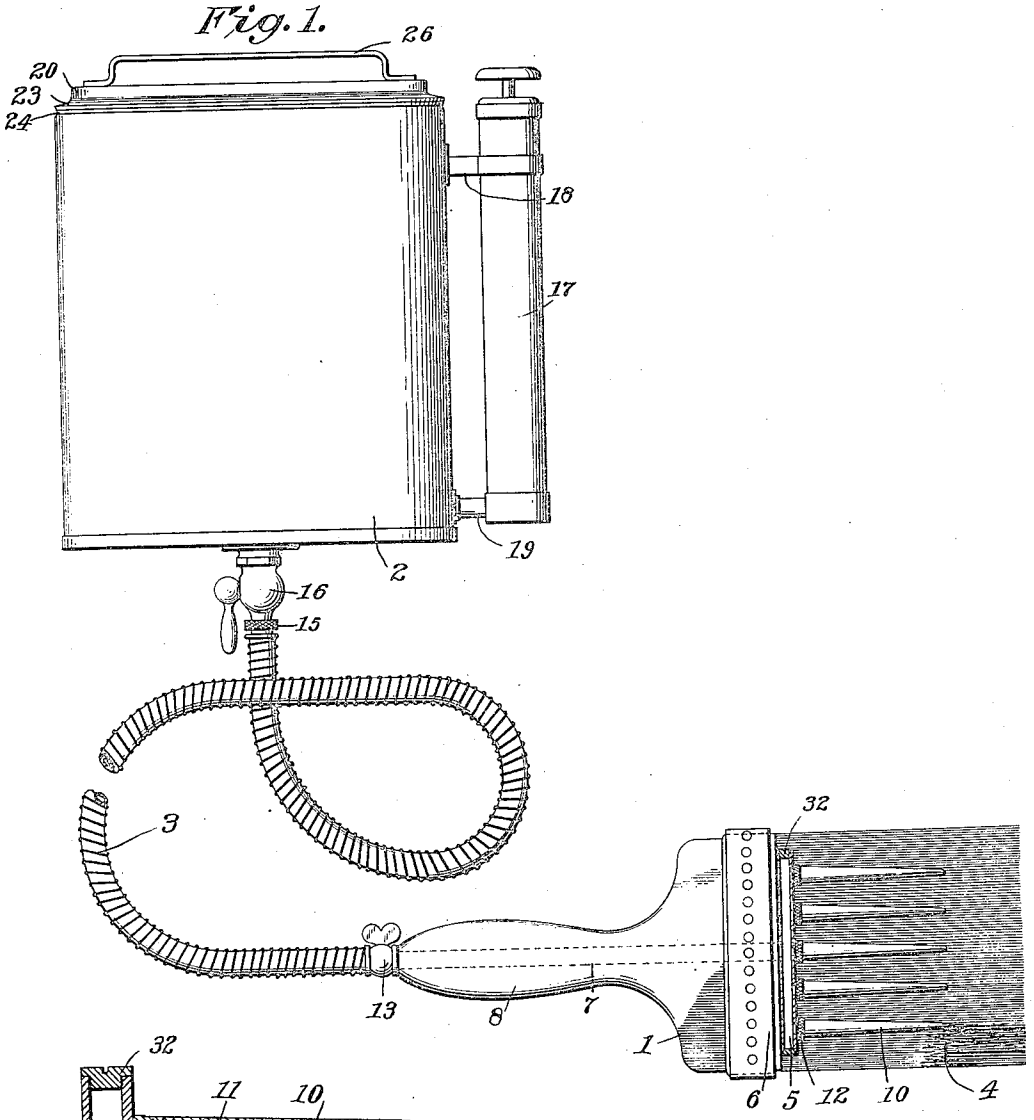
Aug. 21, 1923. 1,465,856

G. MARSH

PAINTBRUSH

Filed March 16, 1922

Fig. 1.



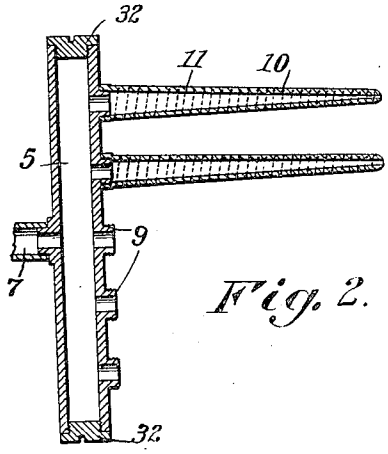


Fig. 2.

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Patented Aug. 21, 1923. 1,465,856

UNITED STATES PATENT OFFICE.

GERALD MARSH, OF ORRICK, MISSOURI, ASSIGNOR OF THREE-FOURTHS TO CHARLES B. HARRISON, PAUL G. WILLIAMS, AND OATMAN J. BRADY.

PAINTBRUSH.

Application filed March 16, 1922. Serial No. 544,273.

To all whom it may concern:

Be it known that I, GERALD MARSH, a citizen of the United States, residing at Orrick, in the county of Ray and State of Missouri, have invented new and useful Improvements in Paintbrushes, of which the following is a specification.

The invention relates to a self feeding paint brush.

The object of the present invention is to provide a simple, practical and efficient device of strong and durable construction adapted to be readily applied to a paint brush to convert the same into a self feeding paint brush and capable of being conveniently carried by a painter and of feeding to the brush a continuous uniform supply of paint or analogous liquid, thereby greatly reducing the labor of painting and enabling the paint to be applied more expeditiously than is possible when an ordinary brush and paint bucket are employed.

Another object of the invention is to provide a self feeding paint brush having a container provided with an air pump adapted to form and to serve as a handle or grip for enabling the container to be conveniently held and handled.

A further object of the invention is to provide a self feeding paint brush having removable feeder tubes for distributing the paint throughout the bristles of the paint brush and adapted to be readily replaced by shorter feeder tubes as the bristles of the brush become worn, so that the feeder tubes may be maintained in proper relation with the outer ends of the bristles until the brush is completely worn out.

A further object of the invention is to provide a self feeding paint brush which may be secured to the body of a painter and which will not require his attention and will leave both of his hands free while climbing ladders or changing his position from one portion of a scaffold, building or the like, thereby materially reducing the danger of painting structures.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings and pointed out in the claim hereto appended, it being understood that various changes in the form, proportion and minor details of construction, within the scope of the claim, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, in which like characters of reference designate corresponding parts in the several views:—

Figure 1 is a perspective view of a self feeding paint brush, partly in section.

Figure 2 is an enlarged detail sectional view, illustrating the manner of detachably mounting the feeder tubes on the distributing chamber, or manifold of the brush.

In the accompanying drawing, in which is illustrated the preferred embodiment of the invention, the self feeding paint brush comprises in its construction an ordinary paint brush 1 and a container 2 which is connected with the paint brush by means of a flexible tube 3 for feeding the contents of the container to the bristles 4 of the paint brush. Within the bristles 4 of the paint brush is arranged a transverse distributing chamber or manifold 5 fitted against the head 6 of the paint brush and extending across the paint brush to within a short distance of the sides thereof, as clearly illustrated in Figure 1 of the drawing. The distributing chamber or manifold 5 is connected with one end of the flexible tube 3 by means of a tube or passage 7 extending through the handle 8 of the paint brush and through the head 6 thereof and communicating at one end with the distributing chamber or manifold centrally of the same and at the other end with the said flexible tube 3. The distributing chamber or manifold 5 may consist of a sheet metal casing or be constructed in any other suitable manner and it is provided at intervals with threaded nipples 9 adapted to receive detachable feeder tubes 10, preferably tapered or conical, as shown and constructed of rubber or other suitable material and reinforced and supported by a conical spring 11 adapted to normally maintain each feeder tube in proper position with relation to the bristles of the brush and capable of enabling the feeder tube to yield to the flexing of the bristles in the use of the paint brush. The feeder tubes are provided at the other attached ends with interiorly threaded connecting sleeves or members 12, which are preferably exteriorly milled or checkered to enable them to be screwed on to and off from

the threaded nipples of the manifold or distributing chamber 5. As the bristles become worn the feeder tubes may be removed and replaced by a shorter set so that the outer ends of the feeder tubes may be maintained in proper position with relation to the outer ends of the bristles for feeding the paint or other liquid to the outer portions of the bristles as required.

The flexible tube is provided at its outer end with a valve 13 which connects the outer end of the flexible tube with the brush handle and which is also adapted to enable the flow of the paint to the paint brush to be controlled or entirely shut off, as desired. The flexible tube 3, which is reinforced by a spirally coiled wire 14 of brass or other suitable material is provided at its inner end with a coupling sleeve or union 15 for enabling the flexible hose to be readily coupled to an outlet valve 16 located at the bottom of the container 2 for controlling the discharge of the contents of the same. The valve 16 is adapted to control and also to cut off the flow of the paint or other contents of the container 2 and the other valve 13 will permit a control of the flow or feed of the paint at the handle of the brush.

The container 2, which is designed to be secured to the body of the operator by a belt or other suitable means, is equipped with an air or pressure pump 17 arranged vertically and provided at the top with operating means connected with the container by upper and lower arms 18 and 19, the lower arm preferably connecting the air or pressure pump with the interior of the container. The pressure pump is spaced from the container a sufficient distance to enable the hand of the operator to be introduced between the pump and the container so that the pump will serve as a convenient handle or grip for the container. As the particular construction of the air pressure pump is well understood and does not constitute a portion of the present invention, detail description and illustration thereof are deemed unnecessary. The pressure pump is adapted to supply pressure to the interior of the container for feeding the paint or other liquid to the paint brush.

The manifold or distributing chamber 5 is provided at its ends with removable screw plugs 32, constituting the end walls of the manifold or distributing chamber and threaded into the same. The screw plugs 32 are adapted to be readily removed from the manifold or distributing chamber when it is desired to clean the same. This will enable the manifold to be easily cleaned and any accumulation may be readily removed from the same.

It will be seen that the self feeding attachment is adapted to be applied to an ordinary paint brush and that it eliminates the time required to dip and carry the brush from a paint bucket to the surface to be painted, which is necessary with the ordinary system in which the paint brushes have to be renewed with paint every few seconds and with the steady flow of paint to the paint brush will effect a saving in time from 30% to 75%, depending upon the class of the work to be done.

What is claimed is:

In a device of the character described, a brush provided with a conduit extending through the handle, a distributing chamber arranged within the brush at the inner end of the bristles and provided with spaced screw threaded nipples, tapered flexible distributing tubes secured to the said nipples and extending longitudinally of the bristles, helical springs embedded within the tubes and extending throughout the length thereof to maintain the tubes in extended position, removable screw plugs in the ends of the chamber to permit cleaning of the same, and means for connecting the conduit and distributing chamber with a source of supply.

In testimony whereof I have hereunto set my hand.

GERALD MARSH.