Jan. 1, 1952 N. J. RAPTIS 2,581,141

ADJUSTABLE BRUSH AND BRUSH HANDLE

Filed May 22, 1947 2 SHEETS—SHEET 1

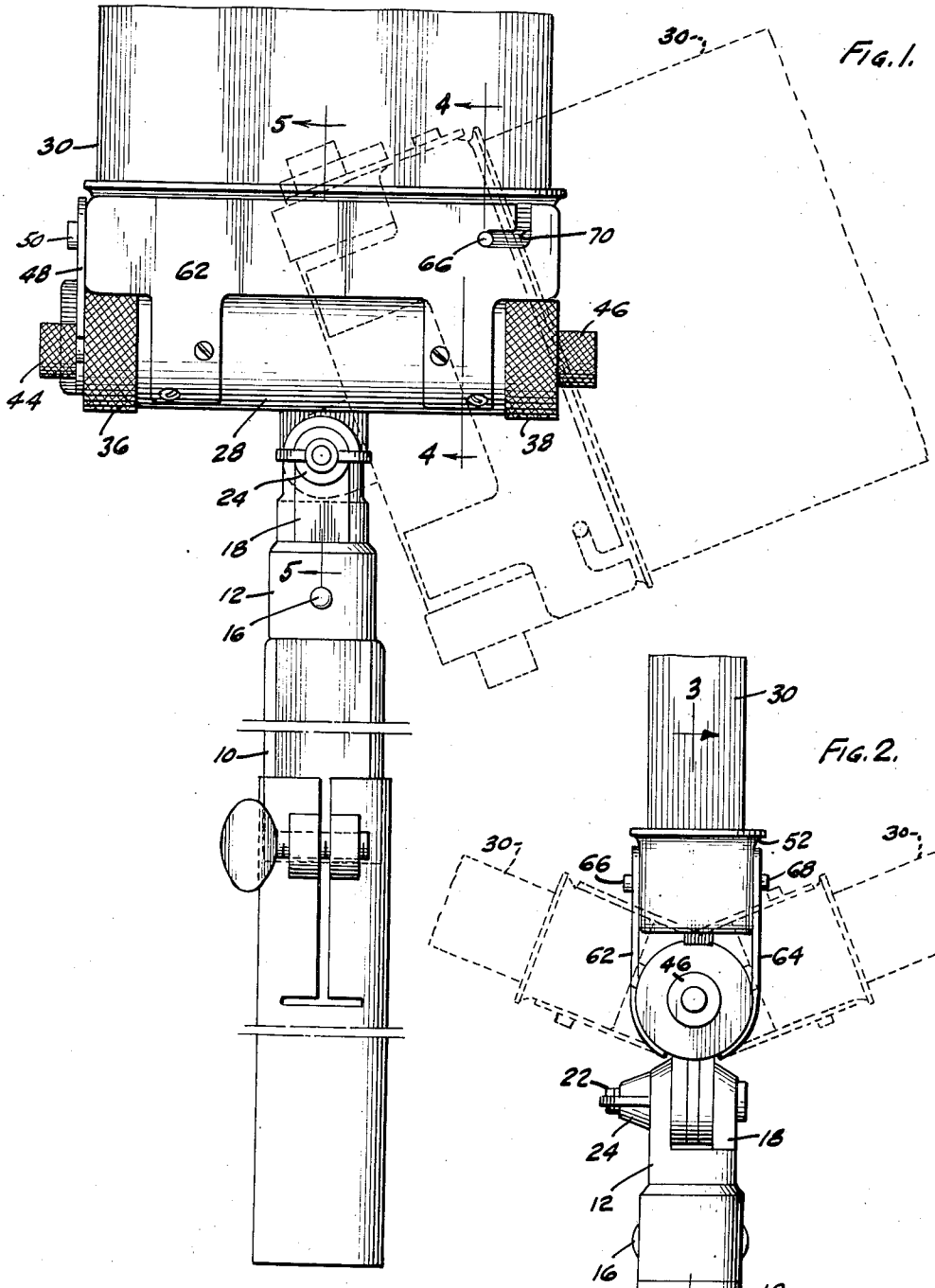

FIG. 1.

FIG. 2.

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FIG. 3.

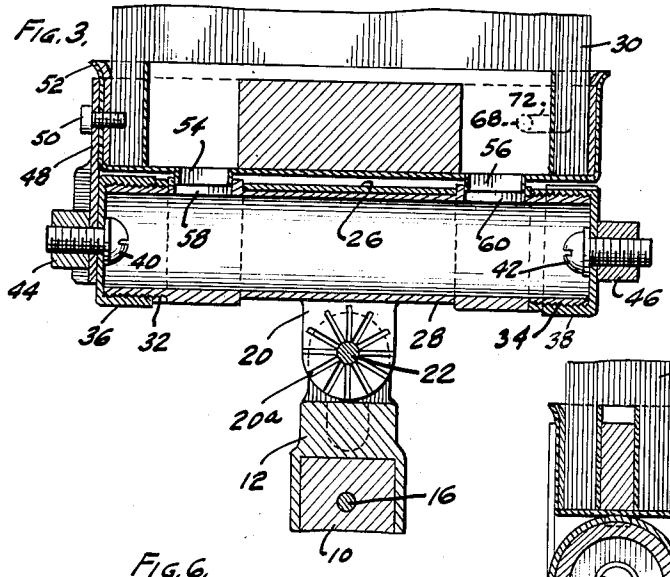


FIG. 4.

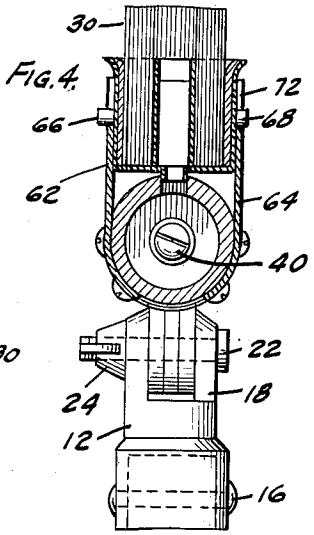
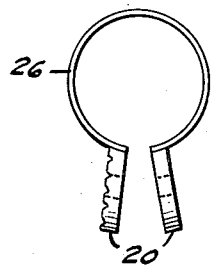


FIG. 6.



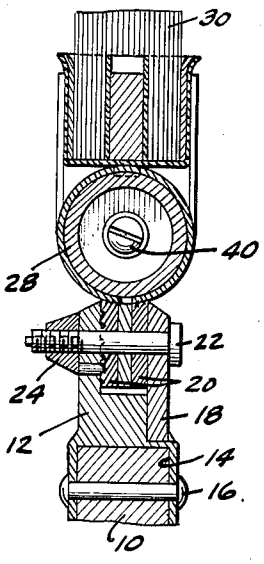
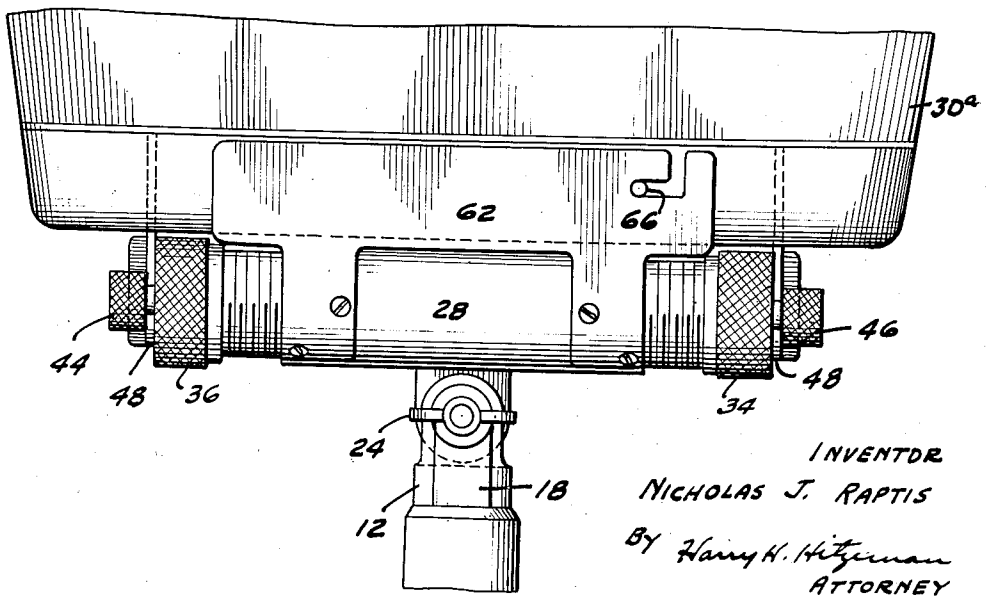


FIG. 5.

FIG. 7.



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ADJUSTABLE BRUSH AND BRUSH HANDLE

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3 Claims. (Cl. 15—248)

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My invention relates to improvements in adjustable brushes and brush handles.

My invention relates more particularly to an improved brush handle and brush of the type normally used for painting and is so constructed that practically universal angular adjustment of the brush on the handle may be obtained, thus facilitating painting operations in inaccessible or inconvenient locations where it is not practical to use a paint brush having a straight handle.

The principal object of the present invention is to provide an improved brush and brush handle so arranged that universal angular adjustment may be obtained between the handle and the brush.

A further object of the invention is to provide an improved brush and brush handle so constructed that excessive paint which would normally flow to the handle and upon the hands of the user, is received in a fountain or magazine in the end of the brush handle.

A further object of the invention is to provide a brush handle construction of the type described with the fountain arrangement previously mentioned, which is adapted to fit various sizes of brushes which may be removably fastened thereto, so that with the same brush handle a variety of sizes of brushes may be used.

A further object of the invention is to provide a construction of the type described which is comparatively simple and easy to operate, yet sufficiently strong and sturdy so that it may be used for a long time without becoming broken or out of order.

Other objects and advantages will be more apparent from the following description wherein reference is had to the accompanying two sheets of drawings, upon which

Fig. 1 is a front elevational view of a brush handle and brush constructed in accordance with my invention, with the brush and brush handle shown in dotted line in a changed angular position;

Fig. 2 is a side elevational view of the same, with a portion of the brush holder and brush shown in dotted lines in different angular positions;

Fig. 3 is a vertical cross-sectional view through the brush and brush holder taken generally on the line 3—3 of Fig. 2;

Fig. 4 is a cross-sectional view of the same parts taken generally on the line 4—4 of Fig. 1;

Fig. 5 is a fragmentary sectional view taken generally on the line 5—5 of Fig. 1;

Fig. 6 is a side elevational view of one of the clamping elements which I employ, and

Fig. 7 is a fragmentary side elevational view showing a brush of a different size fitted to my improved brush handle.

In the embodiment of the invention which I have illustrated in the drawings, I provide a handle 10 which may be of any suitable or desirable length. For reaching up to corners and ceilings and other similar work, this handle is normally three feet or longer, and for other ordinary work it may be about six inches long, depending upon the size of the brush to which the handle is to be attached.

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The handle 10 may be provided at its upper end with a bracket member 12 provided with a socket 14 into which the end of the handle is fitted and secured thereto by a rivet 16. The bracket member is further provided with an upright leg portion 18 forming a slot through the top of the bracket to receive a clamp member 20 which may be held in position therein by means of a bolt 22 and thumb screw 24. The clamp 20 is provided with a band portion 26 which encircles a hollow cylindrical reservoir 28 to which the paint brush 30 is attached in a manner which will be presently described.

The clamp 20, as previously mentioned, is formed with the serrated face 20a to cooperate with ridges upon the inner face of the bracket 12, so that when the thumb screw is tightened, the clamp is rigidly held in a fixed position. However, if it is desired to rotate the clamp, reservoir 28 and paint brush 30 about the bolt 22, this can be done by loosening the thumb screw 24 sufficiently to permit the turning of the brush to the desired angular position where it can be rigidly fastened again by tightening the thumb screw. To secure angular adjustment of the brush and reservoir at right angles to the plane of the bolt 22, this is also accomplished by loosening the wing nut 24 and then rotating the reservoir and brush in the band 26, which will normally have been loosened so that this may be easily done. The reservoir and brush are then held in a fixed position to which they have been rotated by fastening the wing nut 24.

The reservoir 28, which may be in the form of a hollow tube, is provided adjacent its opposite ends with the threaded portions 32 and 34 which receive the cap members 36 and 38 respectively. I provide the screw members 40 and 42 axially of the cap members previously mentioned, extending outwardly from the same and adapted to carry knurled nut members 44 and 46. The nut member 44 in the form of the invention shown in Figs. 1 and 3, carries a latch 48 which is adapted to lock over a pin member 50 secured in the side of the paint brush frame 52. The paint brush 30 has a metallic frame 52 about its lower end, the frame having the passageways 54 and 56 therein normally extending through openings 58 and 60 into the reservoir 28. The frame 52 is positioned on the reservoir and held by means of a pair of strap members 62 and 64 attached to the sides of the reservoir 28 and

adapted to receive the pin members 66 and 68 in suitable rectangular slots 70 and 72, thereby effectively locking the paint brush frame and paint brush in the top of the reservoir 28 with the passageways 54 and 56 extending through the openings in the reservoir when the latch 48 is connected over the pin 50.

From the above and foregoing description, it can be seen that I have provided a construction of brush handle, reservoir and paint brush cooperatively connected together so that paint from the brush, instead of dripping on the handle and hands of the user, will be collected in the reservoir, also acting as a unit about which the brush may be rotated for angular positioning in one plane, and the clamp between the brush handle and reservoir acting as the other means for angular adjustment of the paint brush in the other plane.

In Fig. 7 I have shown a larger brush 30a secured to the strap members 62 and 64 by means of the pins 66 and 68 and additionally locked in position against removal by two latch members 48, the latch members in this instance being connected to the ends of the caps 36 and 38 by the knurled nut members 44 and 46.

It will be apparent from the foregoing description that I have provided a paint brush and handle construction whereby practically universal angular adjustment of the brush with relation to the handle can be obtained. The provision of the reservoir previously mentioned, so arranged that it acts as a means for angular adjustment rotatably about the same without destroying the adaptability of the reservoir for the reception of excess paint, is one of the specific features of this invention.

By the use of the latch members 48, it can be seen that various size paint brushes can be attached to the handle, so that with a plurality of brushes, only one handle is required.

The improvements set forth in the present application are improvements over the invention shown in my previously issued patents, No. 2,032,664, issued March 3, 1936, and No. 2,278,283, issued March 31, 1942, and are expressly adapted to simplify both the operation and the construction of the adjustable brushes shown therein.

I contemplate that changes and modifications may be made in the exact details shown and I do not wish to limit myself in any particular; rather what I desire to secure and protect by Letters Patent of the United States is:

1. The combination of a handle and a paint brush, said handle having a bracket at its end, a pivotally mounted clamp member secured to said bracket, a reservoir connected to said clamp, a pair of openings in said reservoir, strap members secured to the sides of said reservoir, a frame enclosing the end of said brush, passageways extending from said frame, slots in said strap members and pins on the frame of said paint brush adapted to be received in said slots to connect said reservoir and paint brush together with said passageways extending into said openings.

2. The combination of a handle and a paint brush, said handle having a bracket at its end, a pivotally mounted clamp member secured to said bracket, a reservoir connected to said clamp, a pair of openings in said reservoir, strap members secured to the sides of said reservoir, a frame enclosing the end of said brush, passageways extending from said frame, slots in said strap members and pins on the frame of said paint brush adapted to be received in said slots to connect said reservoir and paint brush together with said passageways extending into said openings, and a latch member connected between one end of said reservoir and the frame of said paint brush.

3. A paint brush and handle combination comprising a handle, a bracket member secured to the end of said handle, a clamp member rotatably secured in said bracket, said clamp member having a band portion, a hollow cylindrical reservoir positioned within said band portion, a paint brush having a metallic frame about its end, means on said reservoir for connecting the frame of said paint brush thereto, said means including a latch member secured to one end of said reservoir and a cooperating pin on said frame, said paint brush frame having passageways projecting from the end of the same and openings in the side of said reservoir to telescopically receive said passageways.

NICHOLAS J. RAPTIS.

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