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H. E. McCLENAHAN

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ANGULARLY ADJUSTABLE HANDLE FOR PAINTBRUSHES

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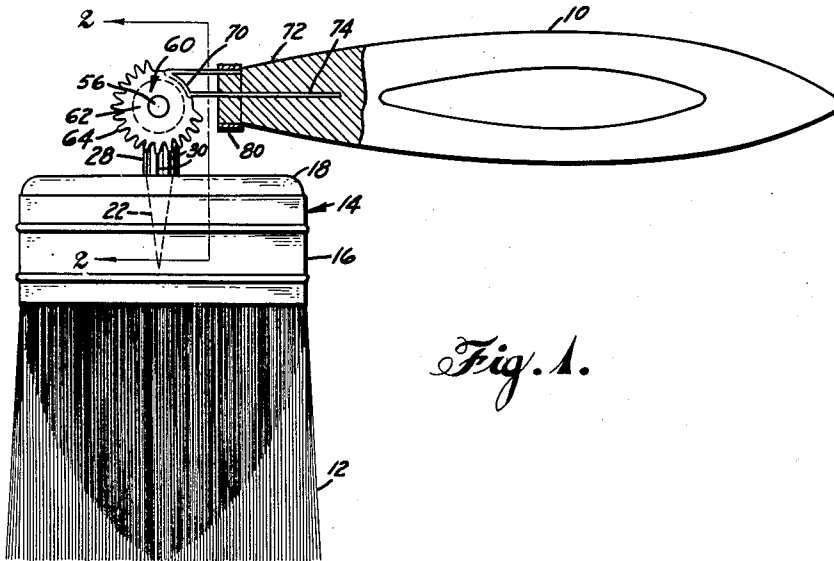


Fig. 1.

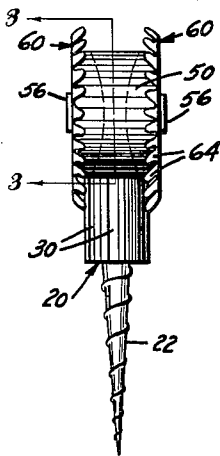


Fig. 2.

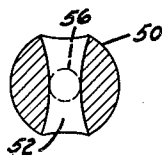


Fig. 3.

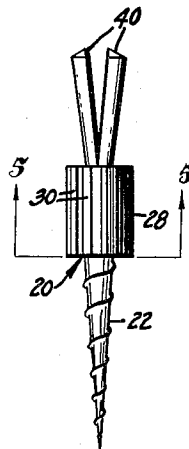


Fig. 4.

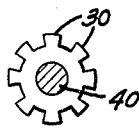


Fig. 5.

INVENTOR.
H. E. McClenahan
BY
C. J. Stuegler
Agent

UNITED STATES PATENT OFFICE

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ANGULARLY ADJUSTABLE HANDLE FOR
PAINTBRUSHES

Harold E. McClenahan, Omaha, Nebr.

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4 Claims. (Cl. 287-14)

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This invention relates to paint brushes and more particularly it is an object of this invention to provide a paint brush having an adjustable connection between the handle and brush portions thereof.

It is well known that there are many difficult places to paint, such as the guttering on houses. Such places are almost impossible to reach with an ordinary paint brush.

It is therefore an object of this invention to provide a paint brush, the handle of which can be set at any one of a plurality of desired angles with respect to the brush portion thereof.

Still another object is to provide a paint brush as described which can be adjusted in two directions, the brush portion being adapted to be rotated about either one of two axes, each at right angles to the other.

Still another object is to provide a connection between the handle and brush portion of a paint brush which is quickly and easily adjusted.

Yet another object of the invention is to provide a device for the purpose described which is sturdy and durable in construction, reliable and efficient in operation, and relatively simple and inexpensive to manufacture, assemble and utilize.

Other and further objects and advantages of the present invention will be apparent from the following detailed description, drawings and claims, the scope of the invention not being limited to the drawings themselves as the drawings are only for the purpose of illustrating a way in which the principles of this invention can be applied.

Other embodiments of the invention utilizing the same or equivalent principles may be used and structural changes may be made as desired by those skilled in the art without departing from the present invention and the purview of the appended claims.

In the drawings:

Figure 1 is a side elevation of the paint brush of this invention shown with a portion of the handle thereof removed.

Figure 2 is a view-in-section taken along the line 2-2 of Figure 1.

Figure 3 is a view-in-section taken along the line 3-3 of Figure 2.

Figure 4 is a side elevation of a grippable member having a screw on its lower end.

Figure 5 is a view-in-section taken along the line 5-5 of Figure 4.

The paint brush of this invention has a handle 10, bristles 12 and a bristle holding portion 14. The bristle holding portion 14 can be constructed in any suitable manner. For purposes of illus-

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tration, a bristle holding portion of the type having a metal band 16 is shown disposed around a wooden block or mounting head 18. The foregoing is all old in the art and the connection of this invention will now be described.

In accordance with this invention a grippable member generally indicated at 20 is disposed above the portion 18. The member 20 has a screw section 22 at its lower end which is adapted to be screwed into the portion 18 as shown in dotted lines in Figure 1.

The grippable member 20 is further provided with a ridged portion 28 having upwardly and downwardly extending, preferably equidistantly spaced apart, elongated, external ridges 30 disposed preferably in parallelism with the axis of the screw 22. The ridges 30 are arranged in an approximately cylindrical configuration and the remainder of the portion 28 is also preferably of a cylindrical shape.

Two elongated, resilient securing portions 40 are provided and extend upwardly and outwardly from that end of the ridged portion 28 which is opposite the screw 22.

The securing portions 40 are resilient and tend to assume free positions spaced apart from each other at their upper ends inclining downwardly to positions spaced closely together at their lower ends. A pivot member 50 is provided, the member 50 being preferably of a cylindrical shape and having a passage 52 extending diametrically therethrough from top to bottom. The passage 50 is adapted to receive the securing portions 40. The passage 52 is provided with outwardly flaring side walls on the upper end thereof opposite the grippable member 20 for tightly engaging the securing portions 40.

The pivot member 50 further has two outwardly extending axially aligned stub axle portions 56. The axle portions 56 are disposed in a line at a right angle to the axis of the passage-way 52.

Two grips 60 are provided, one on each side of the pivot member 50. The grips 60 each have flat center surfaces 62 surrounded by a semi-circular arrangement of claws 64. The claws 64 are preferably equidistantly spaced apart around the outer edges of the flat portions 62, the outer ends of the claws 64 being turned inwardly for engaging the grippable member 28 between the ridges 30.

In the center of each flat surface 62 the grips 60 have aligned apertures for receiving the stub axles 56. The grips 60 are attached to a connecting piece 70 having two outwardly extending arms 72 and 74.

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The arms 72 and 74 are attached at each end of the connecting portion 70 and extend in parallelism into the handle 10. The arm 74 extends deeply into the handle 10 adjacent the center thereof while the arm 72 extends into the handle 70 adjacent one edge thereof being held in place by a band 80.

Although it is optional, the grips 60, the connecting member 70 and the arms 72 and 74 are all preferably integral and are formed from one piece of material.

The grips are preferably resilient for tightly gripping the grippable member 28.

In operation, when it is desired to set the handle 10 at a different position it can be moved upwardly as shown in Figure 1 until the claws 64 are disengaged from the grippable member 28. The handle 10 can then be rotated to a different position about the stub axles 56 and then the grips 60 and pivot member 50 can be slid down again upon the securing portions 40 until the claws 64 again engage the member 28 in a new and preferred position.

This invention has provided a paint brush having a pivotal connection between the handle and brush portions thereof, the connection being of a new and more economical construction.

From the foregoing description it is thought to be obvious that a pivotally adjustable brush constructed in accordance with my invention is particularly well adapted for use, by reason of the convenience and facility with which it may be assembled and operated, and it will also be obvious that my invention is susceptible of some change and modification without departing from the principles and spirit thereof, and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice, except as claimed.

I claim:

1. An adjustable connection for attaching together a first and a second object comprising: a ridged grippable member having parallel equidistantly spaced apart elongated external ridges arranged in approximately cylindrical configuration, means for attaching said member to said first object, said member having two elongated resilient securing portions extending outwardly from the other end thereof, said securing portions tending to assume free positions spaced apart from each other at their upper ends; two grips disposed on opposite sides of said ridged member, said grips tightly engaging opposite sides of said grippable member, each grip having an approximately circular row of outwardly extending spaced apart claws, said claws being interlocked against said ridged member and fitting between the ridges thereof, said grips each having an aperture therethrough at the center of

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each said row of claws; means securing said grips to said second object; and a pivot member having a passage therethrough for receiving said securing portions, said passage being of a size such that its walls are gripped by said securing portions, said passage having outwardly flaring sidewalls on the end thereof opposite said grippable member for tightly engaging said securing portions, said pivot member having two outwardly extending aligned stub axle portions disposed one on each side thereof and extending through said apertures in said grips, and the axis of said stub axle portions being disposed at a right angle to said passage.

2. An adjustable connection for attaching together a first and second object comprising: a grippable member having a rough surface; means securing said grippable member to said first object, said member having two elongated resilient securing portions extending outwardly from the other end thereof, said securing portions tending to assume free positions spaced apart from each other at their upper ends; two grips disposed on opposite sides of said grippable member, said grips tightly engaging opposite sides of said grippable member; a pivot member having a passage therethrough for receiving said securing members for the rotation of said grippable member about a first axis in said passage, said passage being of a size such that its walls are gripped by said securing portions; means pivotally securing said grips to said pivot member for rotation about a second axis normal to said first axis; and means securing said grips to said second object.

3. A connection as described in claim 2 in which said passage has outwardly flaring sidewalls on the end thereof opposite said grippable member for tightly engaging said securing portions.

4. An adjustable connection for attaching together a first and a second object comprising: a grippable member having a rough surface; means securing said grippable member to said first object; two resilient grips disposed on opposite sides of and tightly engaging opposite sides of said grippable member; a pivot member; means pivotally securing said grippable member to said pivot member for rotation about a first axis; means pivotally securing said grips to said pivot member for rotation about a second axis normal to said first axis; and means securing said grips to said second object.

References Cited in the file of this patent

UNITED STATES PATENTS

Number	Name	Date
432,130	Fenton	July 15, 1890
1,186,915	Landin	June 13, 1916
2,581,141	Paptis	Jan. 1, 1952