

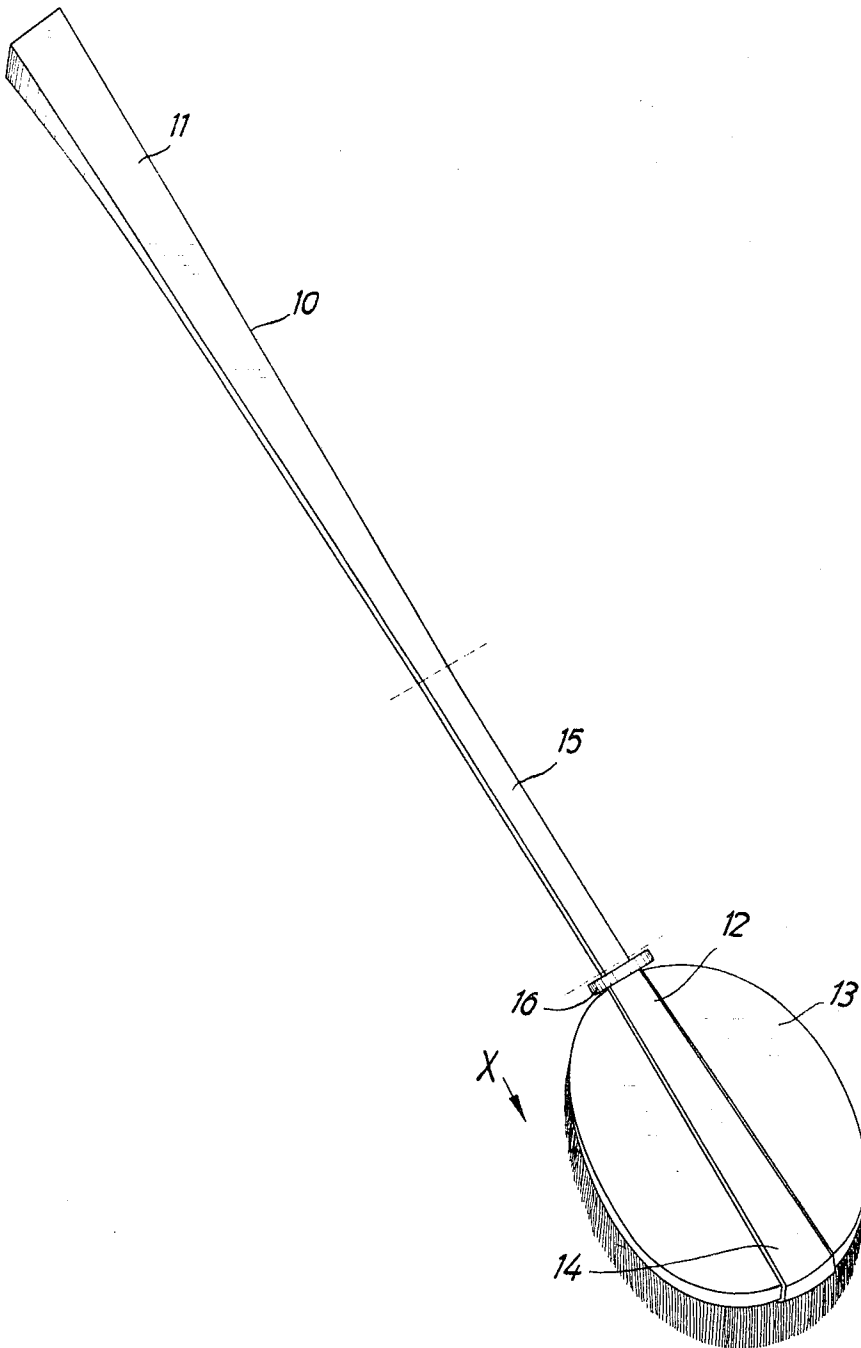
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LONG-HANDLED BRUSH

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1

2

3,431,575

LONG-HANDLED BRUSH

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3 Claims

ABSTRACT OF THE DISCLOSURE

A long-handled brush wherein the handle is provided with an enlarged profiled portion at the end opposite the grip portion and an intermediate portion of narrower cross section. The brush body is formed with a profiled retaining groove and forms a wedge-fit engagement with the similarly shaped cross section of the enlarged profiled portion of the handle. The handle may be provided with a clamping ring movably mounted on the intermediate portion.

The present invention relates generally to brushes and more particularly to a long-handled brush including a removably fastened handle.

In long-handled brushes particularly bathing brushes of known designs, it is known to insert the handle into a groove provided in the brush body.

When such a brush body will be submerged in water, expansion of the brush body may occur, or in the case of plastic brushes having lack of adhesion between brush body and handle, unwanted slippage between handle and brush body may be encountered and under the conditions of usage, the brush body tends to loosen itself from the handle. On the other hand, for example, when one travels, it is desirable to have a brush of which the handle could be detached from the brush body.

It has already been proposed to employ a resilient clamping connection between handle and brush body. Such an arrangement is not reliable because, here too, the parts tend to separate during usage.

According to the invention, a long-handled brush includes a brush adapted to be fastened to a handle, the handle is provided with an enlarged profiled portion at the end opposite to a grip portion, the brush body is formed with a profiled retaining groove extending over the whole length of the brush body, the cross section of said groove being adapted to the enlarged profiled portion of said handle, and an intermediate portion of said handle for inserting the handle into said groove of said brush body has a narrower cross section than said profiled retaining groove.

The handle may further be provided in its intermediate portion with a fastening means for securing the brush body in said inserted position to said handle.

Other features of the invention will appear from the following description of a representative embodiment shown in the accompanying drawing which is a perspective view of a bathing brush according to the invention.

As shown in the drawing, the handle 10 is provided

at one end with a grip portion 11 and at the other end with an enlarged portion 14 adapted to be engaged by a profiled retaining groove 12 provided in the brush body 13. The profiled retaining groove 12 extends over the whole length of the brush body 13. The width of an intermediate portion 15 of the handle 10, the extension of which is indicated in the drawing by two dashed lines is narrower than the width of the groove 12.

As may also be seen from the drawing, the enlarged portion 14 of the handle 10 is engaged in the groove 12 which in cross section may, for example, be a dovetail guide. The profile of the enlarged portion 14 engageable by the groove 12 is shaped in the form of an abutment means providing for rigid engagement between brush body 13 and handle 10.

The brush body 13 may be attached to the handle 10 by bringing the groove 12 of the brush body into engagement with the narrower intermediate portion 15 of the handle and moving the brush body in the direction of the arrow X shown in the drawing into the position shown in which the enlarged portion 14 abuts the groove 12. A clamping or retaining ring 16 or the like movably mounted on the intermediate portion 15 may be provided for further securing the brush body 13 to the handle.

The handle 10 and the brush body 13 may consist of wood and/or plastic. The profiles of the enlarged portion 14 or the retaining groove 12, respectively, may be back-cut, the enlarged portion 14 of the handle may also be button-shaped. In this case the matching portion of the groove 12 would be shaped correspondingly. If the fastening means 16 comprises a resilient ring of rubber, plastic or any other suitable material, this ring would be movably mounted on the intermediate portion 15 of the handle providing in any position of the ring frictional engagement with the intermediate portion 15. If the enlarged portion 14 of the handle 10 is formed to extend beyond the brush body, additional fastening means may be provided on that free end.

From the foregoing, it will be appreciated that in the long-handled brush of the invention the brush body 13 will be safely retained on the handle 10 if the former is moved in a longitudinal or transversal direction. Due to the matching profiles of the enlarged portion 14 of the handle 10 and of the retaining groove 12 in the brush body, the latter cannot separate itself unintentionally from the handle. The brush body 13, however, may readily be disengaged from the handle by simply sliding the brush body into a position opposite the intermediate portion 15 in which the parts may be separated by lifting the intermediate handle portion out of the groove. In case a fastening ring or like means 16 is provided, this ring would have to be moved first to a disengaging position. In the separated condition the two parts of the brush are easily packed when on travels, for example.

What I claim is:

1. Long-handled brush including a brush body adapted to be fastened to a handle, characterized in that the handle is provided with an enlarged profiled portion at the end opposite to a grip portion, the brush body is formed with a profiled retaining groove extending over the whole length of the brush body, the cross section of said groove being adapted to the enlarged profiled portion of said handle and forming abutment means for

3

said enlarged profiled portion, and an intermediate portion of said handle for inserting said handle into said groove of said brush body has a narrower cross section than said profiled retaining groove.

2. Long-handled brush according to claim 1 characterized in that said handle is provided in the intermediate portion with a fastening means for securing the brush body in said inserted position to said handle.

3. Long-handled brush according to claim 2 characterized in that said fastening means comprises a resilient ring.

4

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PETER FELDMAN, *Primary Examiner.*

U.S. Cl. X.R.

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