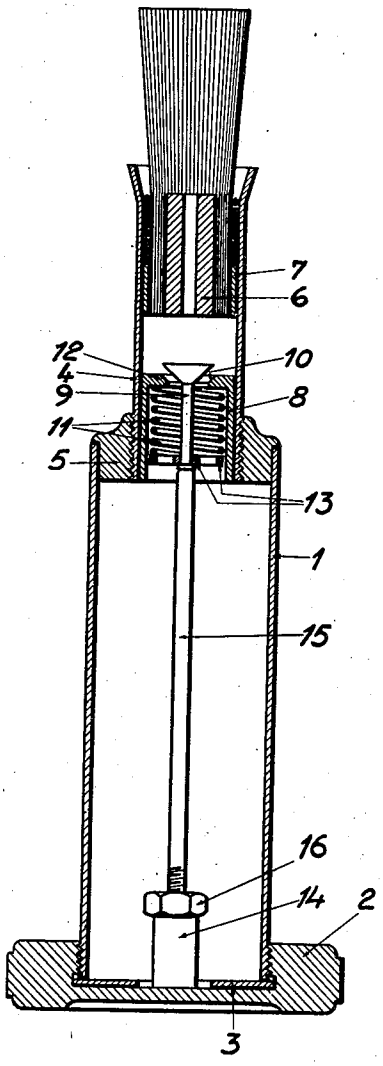
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BRUSH

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BRUSH

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1 Claim. (Cl. 15—138)

The present invention relates to a brush having a container for coating liquid, preferably oil, in its handle. The brush is substantially intended to be used for lubricating machine parts at threading, boring and reaming in lathes and boring machines as well as at manual threading and reaming where the cutting tools require oil. However, the brush can also be used for a great many other purposes, for example in lubricating machine parts against formation of rust, in pasting labels, or the like, in varnishing pictures, and in soldering with tin where hydrochloric acid is used.

The advantage of a brush according to the invention is that during the work coating agent may be continuously supplied to the bristles of the brush from the container in the handle, thereby eliminating the trouble of using a separate container, in which, moreover, as a rule part of the coating liquid is lost when transferred to the working piece.

A longitudinal section of a brush according to the invention is illustrated in the accompanying drawing.

The container 1, which is made of a steel tube, is at one end provided with a thread to receive a screw closure 2 with a leather packing 3 inserted therein. Said closure 2 constitutes at the same time a base or supporting plate on which the brush is put down in an inverted vertical position when not used. In the opposite end of the container 1 there is removably mounted a brush head holder 4 in the form of a metallic tubular body, said holder being screwed into a ring 5 in turn pressed into the container. The outer end of the holder 4 is conically widened to collect the coating liquid which might flow back from the bristles when the brush is put down on the closure 2 serving as a base or supporting plate for the brush when the latter is in an inverted vertical position and not in use. The inner ends of the bristles of the brush are pressed around a central nozzle 6 by means of a mounting sleeve 7, which is pushed outside the bristles, and which is ground and fit into the tubular brush head holder in such a way that it may easily be replaced by another mounting sleeve or head with bristles pressed round a nozzle having a greater or smaller opening. The larger the opening of the nozzle is the larger supply of coating agent, of course, takes place from the container.

In the inner end of the tubular holder 4 there is fixed a sleeve 8 with a displaceable valve 9 having a seat 10 in the sleeve. The valve is under the action of a spring 11, one end of which rests against a shoulder 12 in the sleeve, while the other end rests against an end plate 13 secured to the valve. In said end plate there is a number of apertures letting through the liquid in the container 1. To the closure 2 there is fixed a sleeve 14 with inside thread, a spindle 15 having a stop nut 16 being screwed into said sleeve.

When the closure 2 has been screwed on, the free end of the spindle 15 presses against the plate 13 secured to the valve 9 and holds the valve open, as will be seen in the drawing. When using the brush it is brought against the object to be coated in such a way that the closure 2 is turned upwards, whereby the coating liquid flows successively through the open valve 9 from the container and is led further to the bristles. The size of the opening motion of the valve is determined by the distance which the spindle 15 is screwed into the sleeve 14, the nut 16 serving as a stop. When the closure is unscrewed the spindle 15 follows, and the spring 11 immediately causes the valve 9 to rest against the seat 10, so that the supply from the container is shut off during the filling of fresh liquid.

The coating liquid possibly flowing back along the bristles when the brush is put down on the closure 2, is led through the nozzle 6 and the holder 4 back to the container 1.

Having now described my invention, what I claim as new and desire to secure by Letters Patent is:

A brush of the character described including a tubular holder, a fountain brush head at the outer end thereof, a handle in the form of a container detachably connected with the inner end of the holder and communicating with the bristles of the brush head, an adjustable closure at the other end of the container also constituting a base plate so that the brush may be supported in an inverted vertical position when not in use, a valve arranged at the inner end of the holder and facing the bristles and including a sleeve-like housing removably engaged in the holder and having the inner end closed and provided with an aperture, a valve head disposed exteriorly of the opening, a stem projecting from the head and arranged within the sleeve-like housing, a foot plate connected to the outer end of the stem, and a spring arranged within the sleeve-like housing and bearing against the closed inner end thereof and against the foot plate, and a spindle having the outer end adjustably connected to the inner face of the closure and the inner end adapted to contact the foot plate to hold the valve head open when the closure is in place but permitting closing of the valve head when the closure is removed so that the valve head may be positioned in a shut-off condition while the handle container is being refilled.

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