May 3, 1955 J. G. FERRER 2,707,293

SWIVEL HEAD FOUNTAIN BRUSH

Filed March 10, 1954

Fig. 1

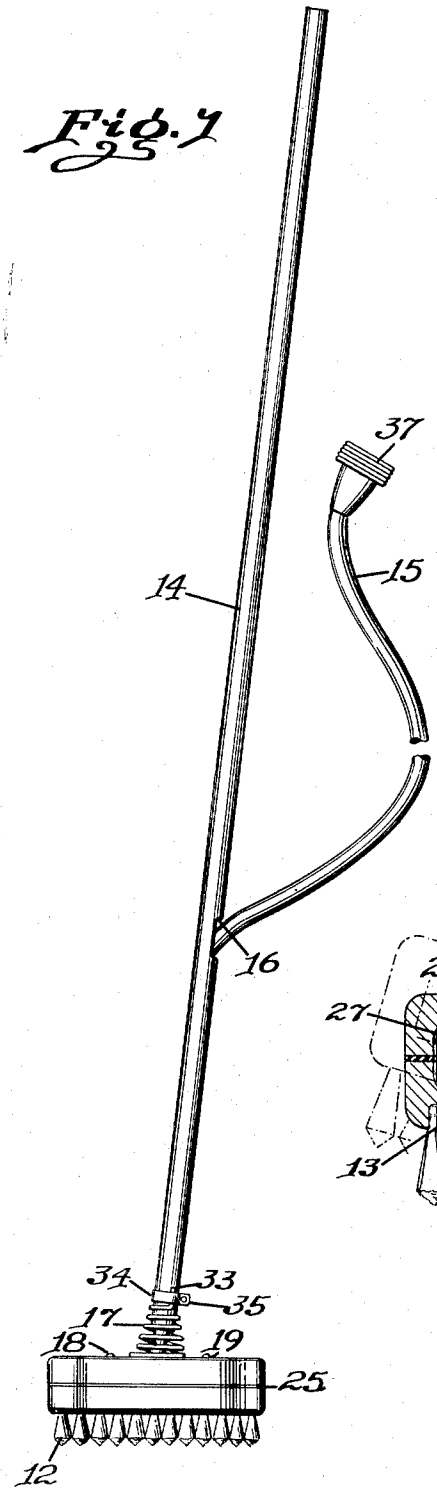
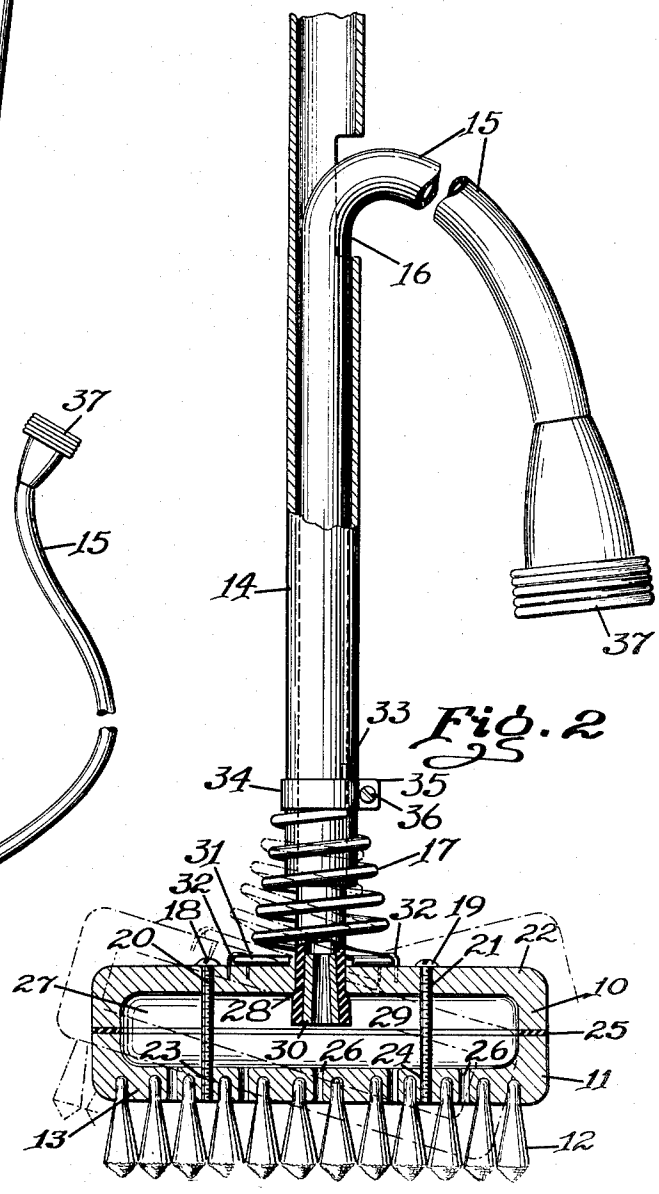


Fig. 2



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SWIVEL HEAD FOUNTAIN BRUSH

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2 Claims. (Cl. 15—128)

This invention relates to fountain brushes of the type wherein a head with bristles therein and with spray openings between the bristles is mounted on the end of a handle through which fluid and particularly water is supplied to the head, and in particular a hollow brush head with bristles mounted in the outer surface of the head and with the head mounted directly on a tube of rubber or other flexible material extended through the handle and protected by a coil spring mounted on the handle and attached to the back of the head.

The purpose of this invention is to provide a fountain brush that is particularly adapted for cleaning bath tubs and the like where extreme flexibility of a head in relation to a handle upon which the head is mounted is required.

Various types of fountain brushes have been provided with heads pivotally mounted on the ends of handles and whereas such devices are adapted to bend or flex in a common plane they are not adapted to bend both transversely and longitudinally and universal joints such as would permit flexibility in all directions would be too costly or cumbersome for a cleaning mop or brush. With this thought in mind this invention contemplates a fountain brush having a head with a cavity therein in which bristles are mounted in an outer wall that is provided with spray openings, in which a rubber hose extended through the handle is secured in an opening in the brush head and also in which the brush head, which is spaced from the end of the rigid handle is connected to the handle with a coil spring that permits flexibility of the head in substantially all directions.

The object of this invention is, therefore, to provide means for mounting a fountain brush head on a tubular handle whereby the head is adapted to be bent in substantially all directions in relation to the handle.

Another object of the invention is to provide a fountain head for a cleaning brush with the head carried by the end of a rubber tube in which means is provided for protecting the tube without interfering with the flexibility of the head.

A further object of the invention is to provide a fountain brush in which the brush head is connected to a handle with a swivel connection in which the brush is of a simple and economical construction.

With these and other objects and advantages in view the invention embodies an elongated tubular handle having an opening in one side, a flexible tube having a water faucet coupling member on one end extended through the opening in the side of the handle and through one end of the handle, a hollow brush head having an opening therein positioned to receive the flexible tube extended from the handle and having means for clamping the flexible tube in the head, said head having bristles extended from the side opposite to that from which the handle extends and having spray openings between the bristles, and a coil spring mounted on the handle and connected to the head.

Other features and advantages of the invention will

appear from the following description taken in connection with the drawing, wherein:

Figure 1 is a side elevational view of the improved bath tub brush in which the head is mounted on the handle with a swivel connection.

Figure 2 is a view showing a longitudinal section through the head of the brush with the parts shown on an enlarged scale, with parts broken away and shown in section, with other parts shown in elevation, and with different positions of the brush head indicated in broken lines.

Referring now to the drawing wherein like reference characters denote corresponding parts the improved fountain brush of this invention includes a head having an upper section **10**, a lower section **11**, and bristles **12** extended from the panel **13** of the section **11**, a handle **14**, a flexible tube **15** extended through an opening **16** in one side of the handle and also from one end of the handle, and a coil spring **17** flexibly connecting the head to the handle.

The lower section **11** of the head is secured to the upper section **10** with screws **18** and **19** that extend through openings **20** and **21**, respectively, in the upper wall **22** of the section **10** and which are threaded in openings **23** and **24** in the panel **13** of the section **11**. A sealing gasket **25** is positioned between the edges of the upper and lower sections of the head to prevent passage of water between the sections.

The panel **13** of the lower section **11** of the head is provided with spaced spray openings **26** whereby water supplied to the cavity **27** in the head under pressure is sprayed through the openings **26**.

The upper panel **22** of the upper section **10** of the head of the brush is provided with a centrally disposed opening **28** in which the end **29** of the hose **15** is secured by a tapering ferrule **30**. It will be understood, however, that the end of the hose may be secured in the opening of the brush head by other suitable means.

The lower or larger coil **31** of the spring **17** is secured to the panel **22** of the upper section **10** of the brush head with staples **32** and the opposite end **33**, of the spring is secured to the tubular handle **14** with a clamp **34**, flanges **35** on the ends of which are held by a bolt **36**.

The end of the hose **15** is provided with a coupling member **37** by which the hose may be secured over a water faucet or the like.

It will be understood that other modifications, within the scope of the appended claims, may be made in the design and arrangement of the parts without departing from the spirit of the invention.

What is claimed is:

1. A fountain brush comprising a tubular handle, a flexible hose extended through the handle and having an end extended from one end of the handle, a hollow brush head having bristles in a face thereof with spray openings between the bristles carried by the end of the hose extended from the handle, and a coil spring mounted on the tubular handle and connected to the brush head, said spring being positioned around the end of the flexible tube extended from the handle.

2. In a fountain brush, the combination which comprises a tubular handle having an opening therein, a rubber hose having a faucet connector on one end extended through the opening of the handle and having an end extended from one end of the handle, a brush head having a cavity therein and having an opening positioned to receive the end of the rubber hose extended from the end of the handle, means for securing the end of the rubber hose in the brush head, a coil spring positioned around

the end of the rubber hose on which the brush head is mounted, means for securing one end of the spring to the handle, means for securing the opposite end of the spring to the brush head, and bristles extended from the side of the brush head opposite to that from which the handle extends, said side of the brush head in which the bristles are positioned having spaced spray openings therein.

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