

May 10, 1932.

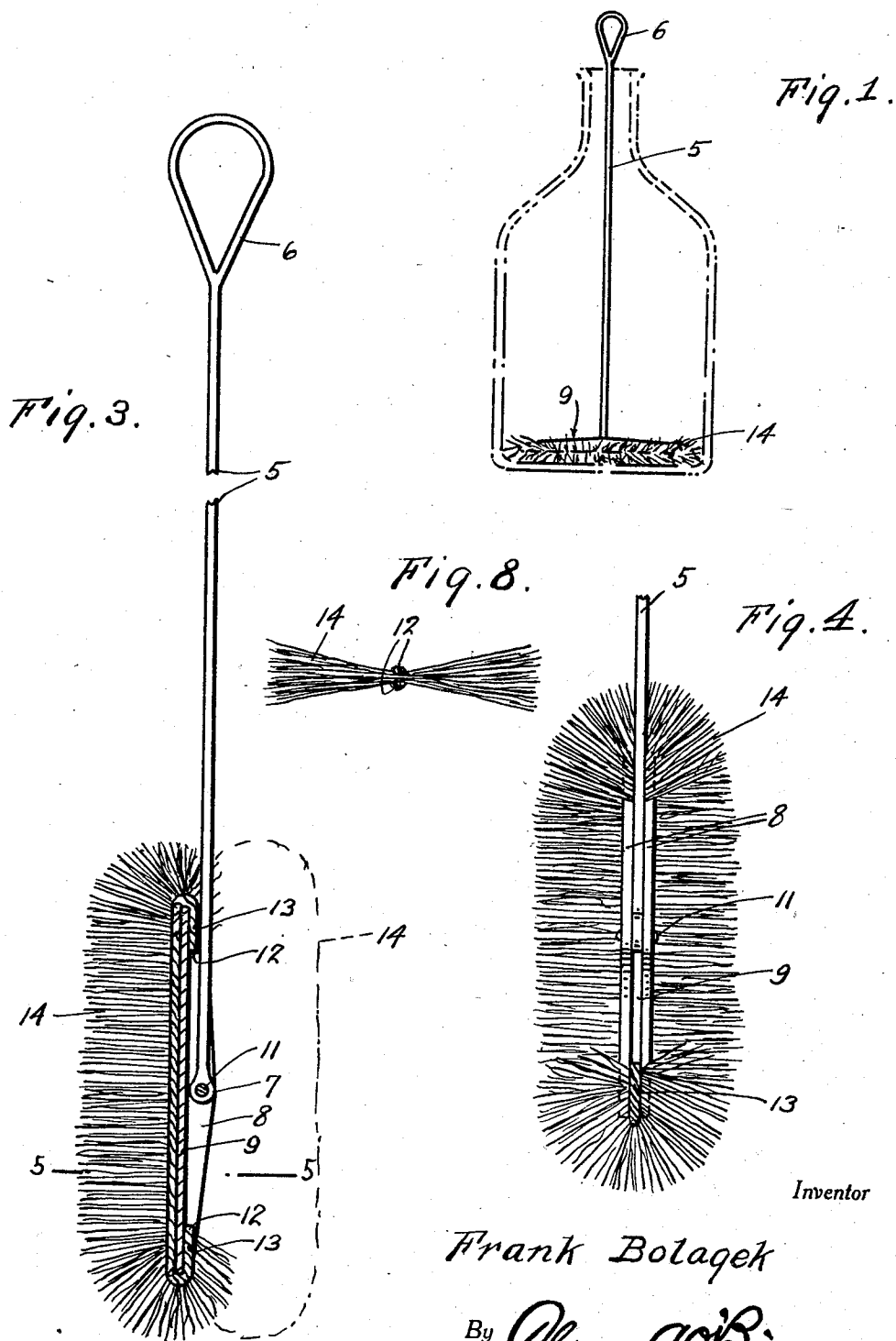
F. BOLAGEK

1,857,584

RECEPTACLE CLEANER

Filed July 24, 1931

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Fig. 2.

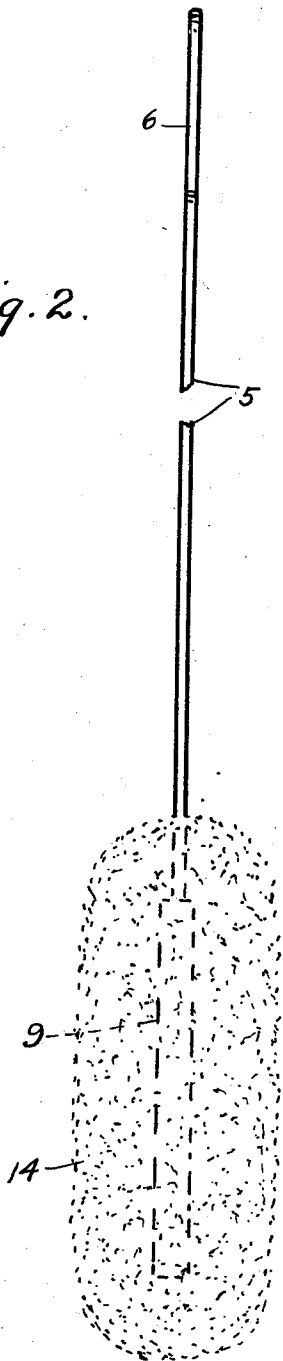


Fig. 5.

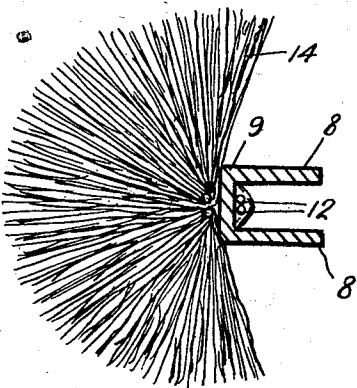


Fig. 6.

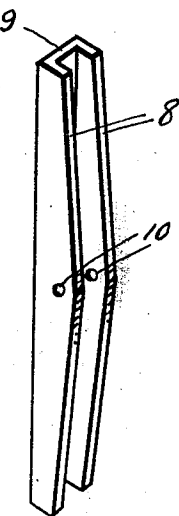
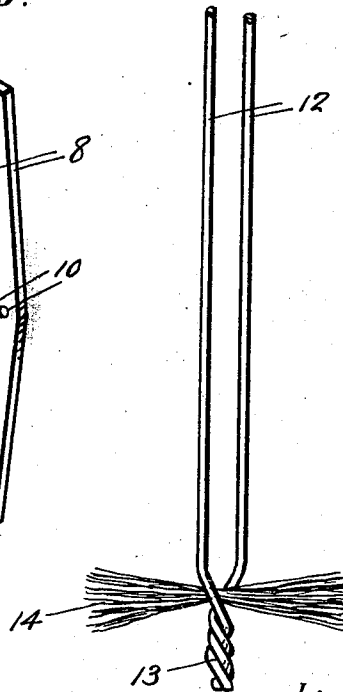


Fig. 7.



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# UNITED STATES PATENT OFFICE

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RECEPTACLE CLEANER

Application filed July 24, 1931. Serial No. 552,988.

This invention appertains to new and useful improvements in receptacle cleaners, and particularly for use in cleaning bottles and other small neck containers.

3 The principal object of this invention is to provide a brush of relatively wide cleaning area and which can be collapsed for insertion through a narrow neck bottle so that the interior of the bottle can be cleaned in a quick and efficient manner.

Other important objects and advantages of the invention will become apparent to the reader of the following specification.

In the drawings:

15 Figure 1 represents a side elevational view of the cleaner in one position for use.

Figure 2 represents a side elevational view of the brush, with the head alined with the handle for insertion into a container.

20 Figure 3 represents a vertical sectional view through the brush in the position shown in Figure 2.

Figure 4 represents a fragmentary side elevational view of the brush looking at the head on the opposite side shown in Figure 2.

25 Figure 5 represents a cross sectional view through the brush.

Figure 6 represents a perspective view of the brush head bar.

30 Figure 7 represents a fragmentary side elevational view showing the manner in which the bristles are attached to the binding strand.

Figure 8 represents a cross sectional view of the brush removed from the bar as shown in Figure 6.

35 Referring to the drawings, wherein like numerals designate like parts, it can be seen that numeral 5 represents an elongated rod equipped with a loop 6 at one end thereof. The opposite end of the rod 5 is provided with an eye 7 for disposition between the intermediate portions of the flanges 8 of the U-shaped bar 9, the intermediate portions of the flanges 8 being provided with openings 40 10 to receive a pin 11 whereby the rod 5 is secured to the bar 9.

45 Figure 7 discloses a pair of ductile metallic strands 12—12 which are twisted as at 13 and as the same is twisted, bristles 14 are inserted between the strands so that a brush is ob-

tained of the formation substantially shown in Figures 3 and 4. A substantial amount of the twisted portion of the strand is left at each end of the brush head as to be bent over the end of the bar 9 and between the flanges 8 in the manner clearly shown in Figures 3 and 4. Obviously by disposing the brushes in the position shown in Figures 3 and 2, the brushes can be easily inserted through the neck of a bottle to reach the interior of the bottle.

The bottom of the bottle or container can be cleaned with the brush in any position shown in Figure 1, after which the brush can be swung so as to be substantially alined with the rod 5 in which position, the sides of the bottle interior can be cleaned efficiently. In this position the brush can be removed from the container.

While the foregoing specification sets forth the invention in specific terms, it is to be understood that numerous changes in the shape, size, and materials may be resorted to without departing from the spirit and scope of the invention as claimed hereinafter.

Having described the invention, what is claimed as new is:

A cleaner of the character described comprising a handle, an elongated brush head of U-shape in cross section, said handle being suitably connected to the brush head between the flanged portions thereof, a ductile tuft carrier, said ductile tuft carrier having its end portion bent over the ends of the head and disposed between the flanged portions of the head.

In testimony whereof I affix my signature.  
FRANK BOLAGEK.

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