E. L. SHARPNECK.

BRUSH.

APPLICATION FILED JUNE 9, 1914.

1,107,715. Patented Aug. 18, 1914.

Fig. 1.

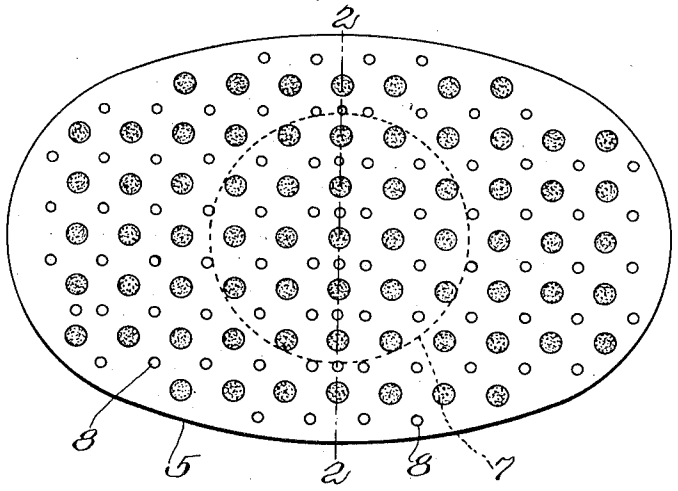
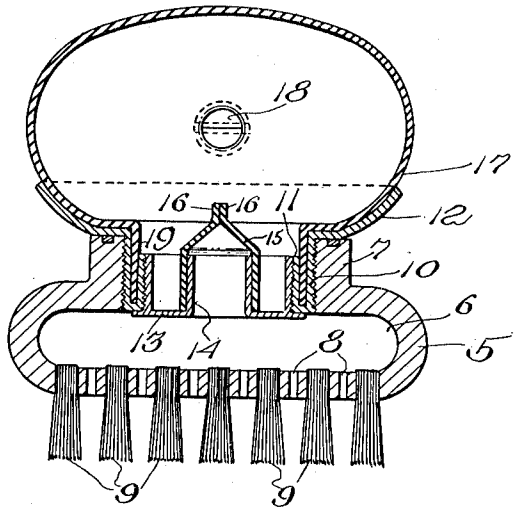


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

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BRUSH.

1,107,715. Specification of Letters Patent. Patented Aug. 18, 1914.

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To all whom it may concern:

Be it known that I, ELIEL L. SHARPNECK, a citizen of the United States, residing at Winthrop, in the county of Suffolk and State of Massachusetts, have invented new and useful Improvements in Brushes, of which the following is a specification, reference being had to the accompanying drawings, forming part thereof.

This invention has reference to improvements in brushes whereby the dust, dandruff, or other foreign matter loosened by the brushing action may be received and retained by suitable means carried by the brush.

One object of the invention is to provide a unitary article comprising a brush having air inlets adjacent the bristles and means for inducing an inflow of air through said inlets carried by said brush.

Another object of the invention is to improve the construction of brushes having pneumatic cleaning devices.

The invention consists in the novel construction of the brush and the combination therewith of the novel suction device.

The invention also consists in such other novel features of construction and combination of parts as shall hereinafter be more fully described and pointed out in the claims.

Figure 1, represents a bottom plan view of a brush illustrating this invention. Fig. 2, represents a sectional view of the same taken on line 2—2 Fig. 1.

Similar reference characters designate corresponding parts throughout.

While brushes are generally used to loosen and sweep away dandruff and other foreign matter or dust from clothing and other material or articles it has occurred to me that the distribution of such matter in the atmosphere, in the process of brushing, is unsanitary and often is disagreeable and that such distribution can be avoided by the use of a brush having means for receiving and retaining such matter at least during the brushing operation and so constructed that from time to time, as may be desirable or convenient, such matter can be readily removed.

To this end my invention comprises a brush body 5 having a wall which constitutes the chamber 6 having the annular collar 7 screw threaded on its inner surface, the main wall of said chamber 6 having the air inlet perforations 8, 8 and series of bristle tufts 9, 9.

Adapted to be received by the collar 7 is the bushing 10 having the inturned lip 11 and the outwardly extending flange or grip member 12. The surface of the lip 11 is screw threaded to receive the valve carrier 13 having the open tubular valve post 14 which carries the rubber valve 15 having the self closing lips 16. The air exhaust bulb 17 of rubber has the self closing outlet valve 18 and has the neck 19 which is received and secured by cement between the bushing 10 and its lip 11.

In the operation of this brush the bulb 17 is placed in the palm of the hand with the fingers holding the grip member 12 and said bulb is compressed to force the air contained therein or at least a large proportion of said air out through valve 18, the bristles 9, 9 are then applied to the head or to the material or article to be cleaned and a rubbing motion is imparted to the brush to loosen foreign matter to be removed and, during such rubbing operation the grasp of the hand is somewhat relaxed to permit the bulb 17 to expand whereupon a suction is exerted by the expanding bulb which acts to open the lips 16 of valve 15 to the flow of air from the chamber 6 to said bulb while the air thus withdrawn or received from chamber 6 is replaced by air rushing into said chamber through the inlet perforations 8, 8 and carrying with it such of the foreign matters as can be taken up by the air currents. This operation of compressing and relaxing pressure on the bulb 17 is repeated during the use of the brush as rapidly as may seem desirable.

When it becomes desirable to remove the accumulated foreign matter from chamber 6 the bushing is unscrewed from collar 7 by grasping the grip member 12 in one hand and rotating the same while the brush body 5 is held by the other hand. If the valve 15 or the inside of the bulb 17 requires attention the valve carrier member may be unscrewed from the lip 11.

While I have shown herein a specific construction of my improved brush it is not my intention thereby to limit my invention.

Having thus described my invention I claim as new and desire to secure by Letters Patent—

1. A brush comprising a body having a

chamber having a perforated wall furnished with bristles, and a suction bulb mounted on said brush body and having a self closing valve opening from said chamber into said bulb and a self closing outlet valve.

2. A brush comprising a body having a chamber having a perforated wall having bristles, a grip member secured to said brush body and having a valve carrier, a self closing valve mounted on said carrier and opening outwardly from said chamber, and a rubber suction bulb secured to said grip member and receiving said valve, said bulb having an outwardly opening self closing valve.

3. A brush comprising a hollow body having a perforated wall furnished with bristles at one side and an opening embraced by a screw threaded collar at another side, a bushing secured in said collar and having an inturned lip and an outwardly spreading grip member, a valve carrier secured in said lip and having a tubular open post, a self closing outlet valve on said post, and a rubber bulb having an extension secured between said lip and said bushing and furnished with an outwardly opening self closing valve.

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