

Sept. 4, 1928.

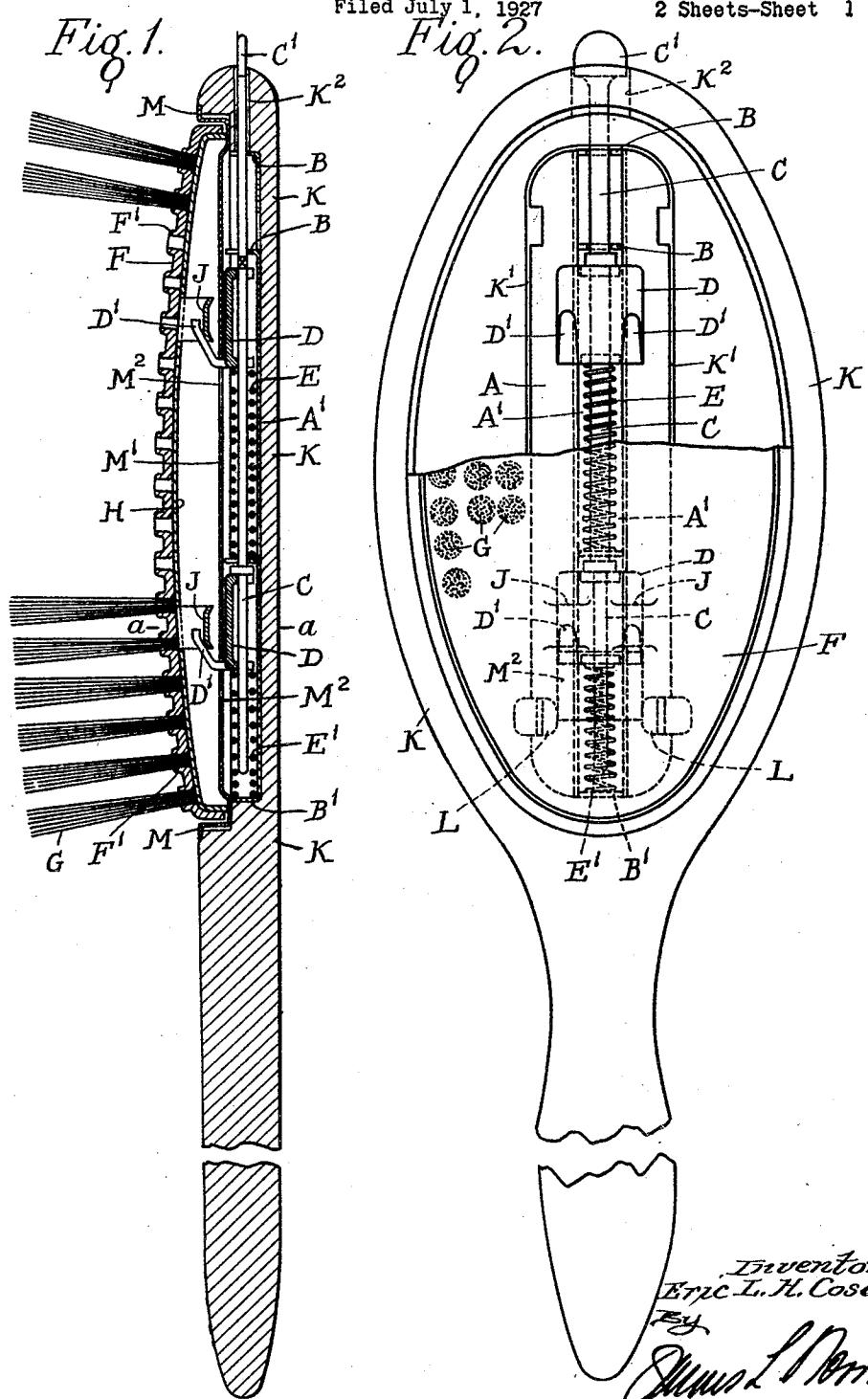
**1,683,530**

E. L. H. COSBY

## BRUSH

Filed July 1, 1927

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Fig. 4.

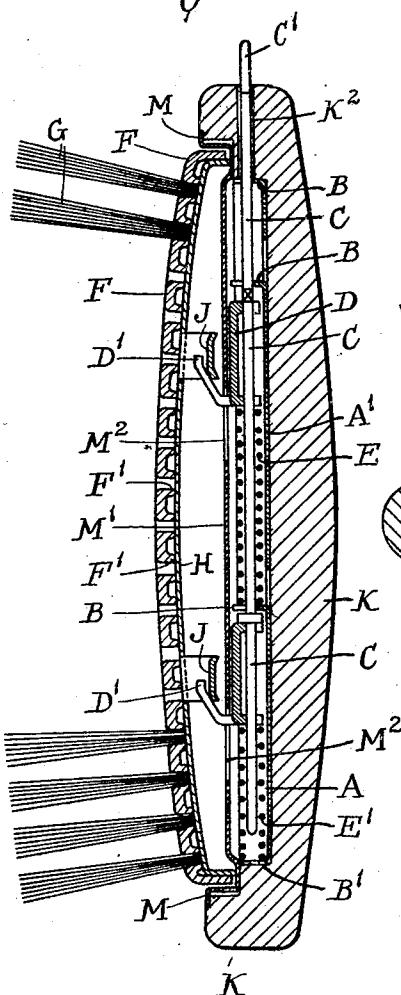
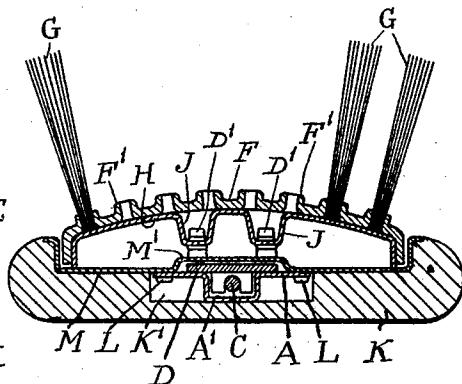


Fig. 3.



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# UNITED STATES PATENT OFFICE.

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## BRUSH.

Application filed July 1, 1927, Serial No. 202,928, and in Great Britain March 10, 1927.

This invention relates to that class of brush in which the stock or filler carrying the bristles is detachably secured to the back. In such class of brushes owing to the construction of the securing means it has been necessary to always insert the brush stock in the same direction; that is to say, it was impossible to reverse the ends of the stock or filler in relation to the back. The object of the present invention is, therefore, to construct the fastening means whereby the stock or filler can be inserted and held in the back in either of two opposite directions.

According to this invention I construct a spring controlled catch device carried by the back and provided with means for operating the catches combined with a catch means on or connected with the stock or plate in such manner that the stock with its bristles can be connected to the back in either of two opposite directions.

My invention can be carried into effect in a variety of ways and as one example I will describe my preferred construction with the aid of the annexed drawings in which:—

Figure 1 is a sectional side view of a brush of the kind having a handle.

Figure 2 is a plan view partly broken away.

Figure 3 is a cross section on line *a a* of Figure 1.

Figure 4 is a longitudinal sectional view of a brush of the kind known as military brushes or without a handle.

According to the drawings I construct one member of the fastening means from a strip of metal A having upturned slotted lugs B and a plain lug B<sup>1</sup> and in the slotted lugs B I position a rod C having two catch devices D each of which is provided with a projecting nose or noses D<sup>1</sup> bent to form somewhat hook shaped projections. Encircling the rod C is a pair of helical springs E, E<sup>1</sup>. The spring E is positioned between one of the lugs B and one of the catch devices D and the spring E<sup>1</sup> is positioned between one of the lugs B<sup>1</sup> and the other catch device D. The springs E and E<sup>1</sup> exert their pressure against the catch devices D in a direction to normally keep the nose of the catch devices pressed towards one end of the strip A.

The strip A may be shaped with a longi-

tudinal recess A<sup>1</sup> (see Figure 3) to act as 55 a guide for the catch devices D.

The stock or filler, which is shown in the drawings as of oval contour, consists of a concaved or hollowed perforated plate F having bosses F<sup>1</sup> surrounding said perforations 60 for carrying the tufts of bristles G and has a backing plate H secured to its concave side. Such plate H is provided with or formed with a bridge or bridges J projecting from its rear side. In Figure 1 the bosses F<sup>1</sup> 65 are shown as projecting outwards but in Figure 4 they are shown as projecting inwards.

The strip A with the rod and catches is secured in position in the back K in any suitable manner, preferably in a recess K<sup>1</sup> with the end C<sup>1</sup> of the rod C projecting through a hole K<sup>2</sup> in one end of the back and such end C<sup>1</sup> may be flattened. A convenient method of securing the fastening means in the back is by attaching the strip A by any suitable means, such as the turned over tongues or lugs L, to the under side of the plate or liner M, which plate or liner M may be secured to the back by screws or other suitable means. The liner M has a longitudinal raised portion M<sup>1</sup>, which is provided with longitudinal slots or openings M<sup>2</sup> through which the catches D<sup>1</sup> can pass.

In operation and to remove the stock or 85 filler the end C<sup>1</sup> of the rod C is pushed inwardly to move the rod C longitudinally. Collars on said rod will bear against and move the catch devices D to release the noses D<sup>1</sup> of the latter from the bridges J of the backing plate H and the stock can be removed. It will be seen that the stock can be inserted and locked in the back in either of two directions, the spring E, E<sup>1</sup> normally holding the noses D<sup>1</sup> of the catches D in 90 engagement with the bridges J of the backing plate H which bridges are open at their opposite ends.

It will be understood that various other constructions and modifications can be employed, for instance the plate M could in some cases be dispensed with and the bridges J formed with or secured directly to the perforated plate F.

Although two catch devices D and bridges J are shown, it will be understood that only one of each may be employed and be placed in the centre of the brush or that any num-

ber may be employed, provided they are so positioned that the bridges will coincide with the noses D<sup>1</sup> of the catches D.

What I do claim as my invention and desire to secure by Letters Patent is:—

- 5 1. A brush including a back having a longitudinal recess therethrough, a spring actuated rod mounted in said recess and accessible from the exterior of the back, a plurality of catch members carried by said rod and movable therewith, a bristle-carrying member adapted for coextensive alinement with the back, and mating catch members carried thereby to be engaged by the catch members of the rod to hold the bristle-carrying member to the back.
- 10 2. A brush including a back having a longitudinal recess therethrough, a spring actuated rod mounted in said recess and accessible from the exterior of the back, a plurality of catch members carried by said rod and movable therewith, a bristle-carrying member adapted for coextensive alinement with the back, and mating catch members carried thereby to be engaged by the catch members of the rod to hold the bristle-carrying member to the back, said last-mentioned members being adapted to be engaged by the rod-carried catches from either of two
- 15 30 directions.

3. A brush, including a recessed back hav-

ing a longitudinal depression, a liner fitting in said depression and provided with aligned guides, a spring-actuated rod mounted in said guides and accessible externally of the back, a catch carried by said rod and projecting beyond the liner, a bristle-carrying filler adapted to fit in said recess, and a cooperative catch member carried by the filler to be engaged by the rod-carried catch from either of two directions.

4. A brush including a back, a strip mounted in the back and having up-turned lugs, a rod slidably carried by said lugs, two catches secured to and movable with the rod and each provided with a nose-piece projecting beyond the strip, a helical spring encircling the rod and positioned between the lugs and one of said catch devices to normally urge the catch toward locked position, a bristle-carrying filler fittable within the back, and two open ended projections disposed upon the inner face of the filler and adapted to be engaged from either end by the respective catch devices of the rod, whereby the filler may be inserted within the back from either direction and the rod manipulated to engage the cooperating catch devices to lock the filler within the back.

In testimony whereof I have hereunto set my hand.

ERIC LEOPOLD HUGO COSBY.