

(No Model.)

T. BROWN.  
ROTARY BRUSH.

No. 583,299.

Patented May 25, 1897.

Fig. 1.

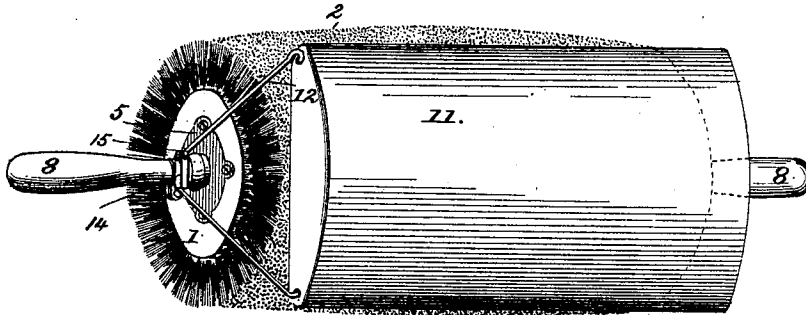


Fig. 2.

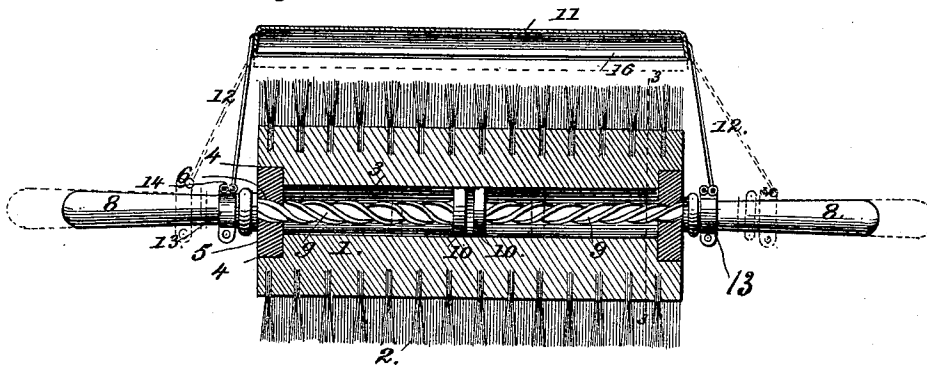


Fig. 3.

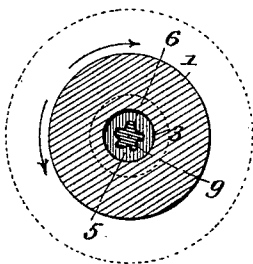
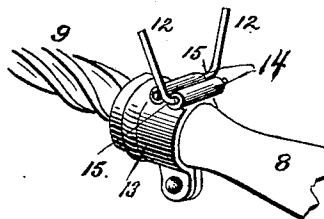


Fig. 4.



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# UNITED STATES PATENT OFFICE.

THOMAS BROWN, OF LINCOLN, NEBRASKA.

## ROTARY BRUSH.

SPECIFICATION forming part of Letters Patent No. 583,299, dated May 25, 1897.

Application filed November 16, 1896. Serial No. 612,349. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS BROWN, residing at Lincoln, in the county of Lancaster and State of Nebraska, have invented a new and Improved Rotary Brush, of which the following is a specification.

My invention relates to improvements in rotary brushes and means for operating the same, and more particularly refers to that class of brushes designed for barbers' use, such invention primarily having for its object to provide a barber's rotary hair-brush of a very simple and economical construction and which can be easily manipulated.

It also has for its object to provide a brush of the character stated having a shield and simple means for attaching the same to the brush.

With other objects in view, which will hereinafter appear, the invention consists in a rotary brush embodying the peculiar and novel features of construction hereinafter first described in detail and then specifically pointed out in the appended claims, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of my invention. Fig. 2 is a longitudinal section of the same, the spiral handle members being at their innermost position in full lines and partly drawn out in dotted lines. Fig. 3 is a transverse section taken on the line 3 3 of Fig. 2. Fig. 4 is a detail view illustrating the means for detachably connecting the lower end of the shield-supporting rod on the handle members.

Referring to the accompanying drawings, in which like numerals indicate like parts in all the figures, 1 indicates the stock or body portion, and 2 the bristles, which are secured to the stock in any well-known manner. The body portion 1 has a central bore 3 extended longitudinally therethrough and of uniform diameter, such bore terminating at the ends in enlarged annular seats 4, in which are fixedly held metal disks or nuts 5, which have central apertures having spiral screwways 6, the screwways in the washer at one end being arranged in an opposite direction to that of the screwways in the washer at the other end.

8 indicates the handle members, which have extensions 9, provided with a series of spirally-arranged threads which are adapted to

engage the spiral ways in the nuts 5, the said spiral ways of one handle extending in the direction reverse to those in the other handle. It will be noticed by reference to Fig. 2 that the spiral extensions of the handle members are of a less diameter than the bore of the body 1, so as to move freely within such bore, the ends of such spiral members, however, having smooth head portions 10, which fit the bore and form bearing portions for the inner end of the spiral extension and serve as an additional journal portion for the body to turn on, which body has its main bearing on the spiral extension at the points where the nuts 5 engage the same.

So far as described it will be readily seen that by providing the handle members with spiral extensions of reverse pitch that such handle members will serve the double purpose of forming the supporting means and also the means for imparting a reverse rotary motion to the brush, it being obvious that by pulling the handle members outward the brush will be rotated in one direction, and by forcing the handle members inward the brush will be rotated in a reverse direction, the speed of such rotation being governed by the pitch of the spiral threads on the handle members. The headed portion of the spiral extension also forms stops to limit the outward pull on the handle members as they engage the washers, and such handle members are drawn out to their fullest extent.

11 indicates a shield which is detachably connected preferably to the handle members by means of pendent rods 12, pivotally connected at their upper ends to the four corners of the shield and at their lower ends detachably connected to the handle members, such connection being of such a nature as to permit the shield being readily detached when desired. For this purpose each handle member has a band 13 clamped thereto, each of which is provided with a pair of transverse sockets 14, adapted to receive the angle portions 15 of the rods, which are adapted to be slid into such sockets, in the manner clearly shown in Fig. 4. By providing such means of connection it is obvious the shield will be held to a fixed position—that is, from swinging around during the operation of rotating the brush—the pivotal connection of the han-

dle member allowing for the free adjustment as the handles are pulled outward and inward.

If desired, the shield may have its ends turned in, as at 16, to form pockets to catch the dirt and loose hair, which can afterwards be freely emptied by tilting the brush so as to admit of the discharge of the collection in the said pockets. By thus connecting the shield to the handle members the same can be quickly removed from or attached to the brush. From the foregoing description, taken in connection with the accompanying drawings, it is thought the advantages of my invention will readily appear. The same is of a very simple nature, can be manufactured at minimum cost, is easily operated, durable and efficient, and not liable to get out of order.

Modifications in details may be resorted to without departing from the scope of the appended claims.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A rotary brush comprising a bristle-carrying body handle members having spiral extensions movable longitudinally in the ends of the body portion and spirally-threaded nut members fixedly connected to the body to engage the spiral extension of the handle members substantially as shown and described.

2. A rotary brush comprising a body portion, handle members having portions endwise movable in the said body, said extended

portions having spiral threads, the spirals on one handle extending in a reverse direction to those on the other handle, nut or disk members having spirally-threaded apertures held to engage the spiral portions of the handles and fixedly connected with the brush-body as specified.

3. The combination with the brush-body, the endwise-movable handle, having spiral extensions and the spiral nuts carried by the brush-body, of a shield having extensible connecting members adapted to be secured to the handle members as specified.

4. The combination with the brush-body having a longitudinal bore and the washers at the ends of such bore, having spirally-threaded apertures of a diameter less than that of the bore, of the handle members having spiral extensions to engage the washers, and headed portions at their inner end to fit the bore of the brush-body as specified.

5. The combination with the brush-body having a central bore terminating at the ends, spirally-threaded washers and the handle members having spiral extensions movable through the washers, said handle members having bands provided with transverse sockets, of a shield having pendent rods at the ends pivotally connected therewith, said rods having angle members adapted to fit said sockets substantially as shown and described.

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Witnesses:

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