March 9, 1926 1,576,196

R. R. KEMMIS

ROTARY HAIR BRUSH

Filed May 7, 1925 2 Sheets-Sheet 1

Fig. 1.

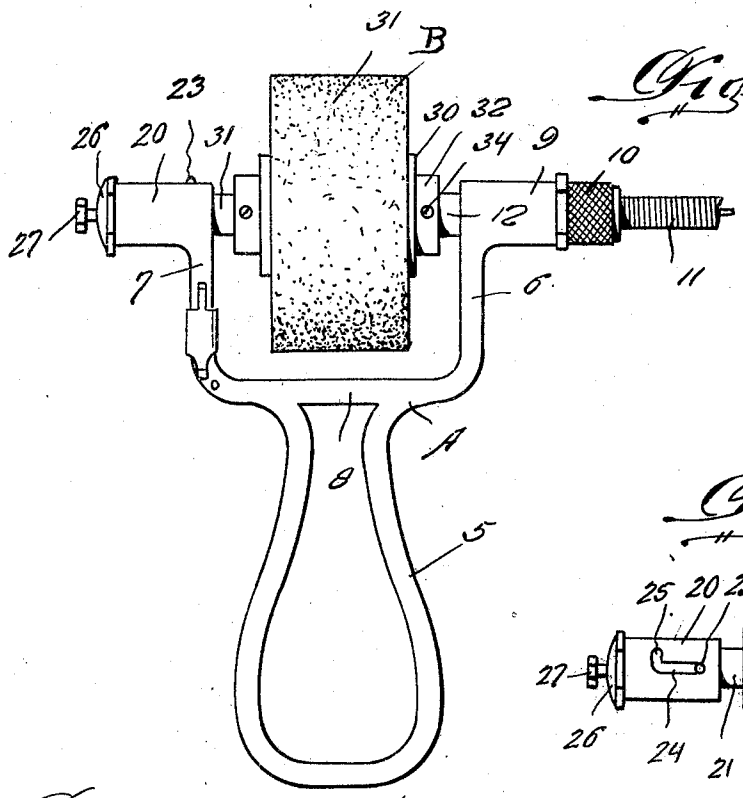
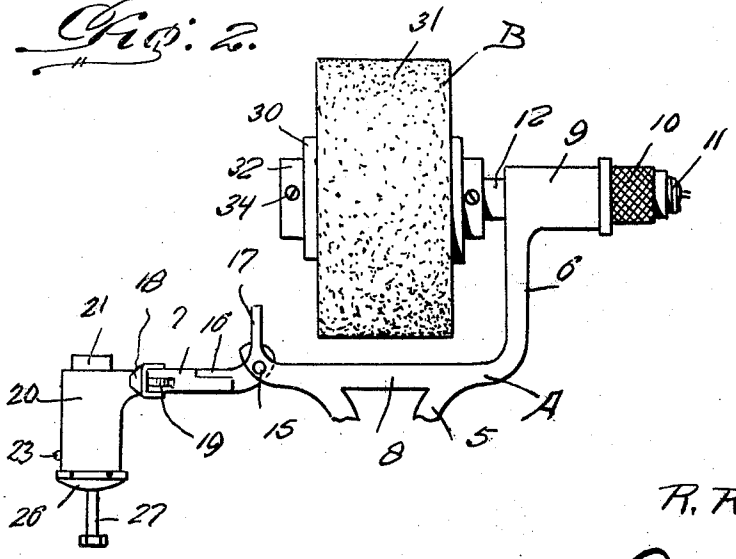


Fig. 4.

Fig. 2.



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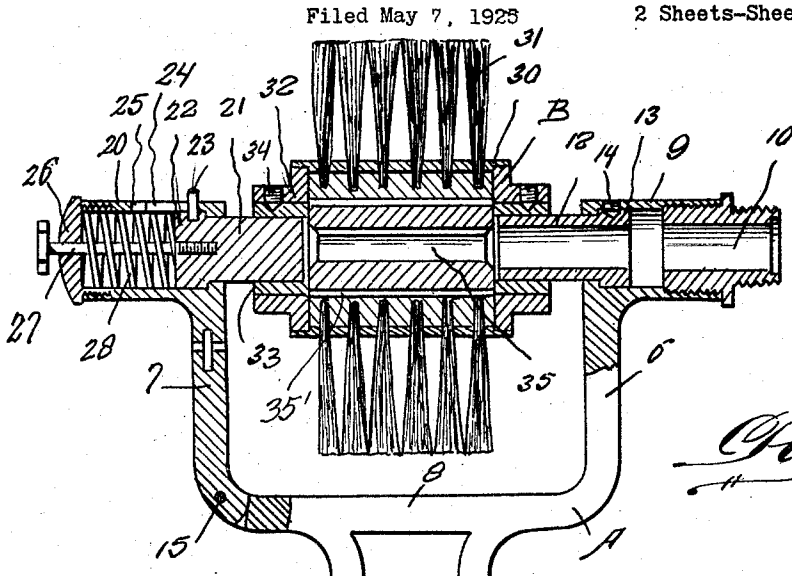


Fig: 3.

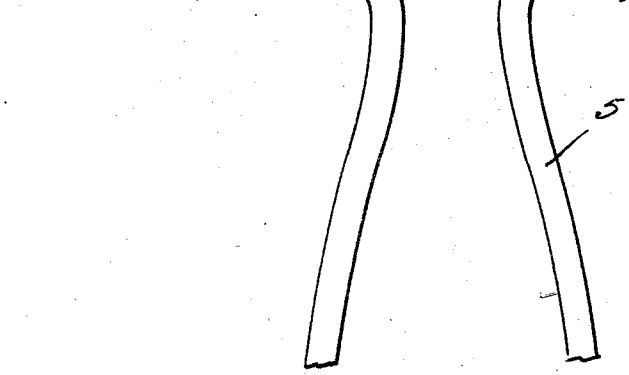


Fig: 6.

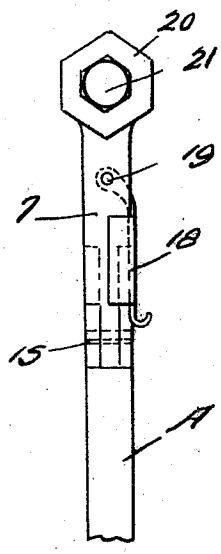
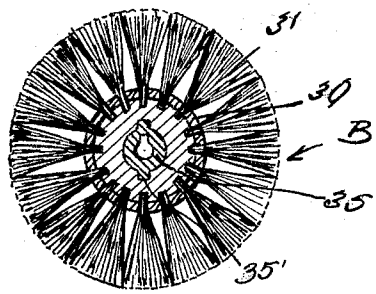


Fig: 5



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UNITED STATES PATENT OFFICE.

RALPH ROY KEMMIS, OF EL PASO, TEXAS.

ROTARY HAIRBRUSH.

Application filed May 7, 1925. Serial No. 28,713.

To all whom it may concern:

Be it known that I, RALPH ROY KEMMIS, a citizen of the United States, residing at El Paso, in the county of El Paso and State of Texas, have invented certain new and useful Improvements in a Rotary Hairbrush, of which the following is a specification.

The present invention appertains to improvements in electrically operated rotary brushes, and is more particularly adapted for use as a rotary hair brush which will provide an efficient means for massaging the scalp.

Another important object of the invention is to provide a rotary brush which by its use will produce increased circulation of the blood in the scalp and thereby benefit the roots of the hair and the scalp.

Another important object of the invention is to provide a rotary brush of this nature which is easily assembled, or disassembled so that the same may be cleansed and sterilized, and thus be useful around barber shops, beauty shops, etc.

Another important object of the invention is to provide a demountable brush which may be reversed in a frame, thus preventing the bristles from becoming permanently curved in one direction, as is the case where a brush rotates continually in one direction.

Another very important object of the invention is to provide a frame with a demountable brush therein whereby it is possible to change the brush, depending upon the size desired, or the degree of stiffness required in the bristles.

A still further important object of the invention is to provide a rotary brush which is exceedingly simple in its construction, inexpensive to manufacture, strong, durable, reliable in operation, easy to manipulate, not liable to easily become out of order, and otherwise well adapted to the purpose for which it is designed.

With the above and numerous other objects in view, as will appear as the description proceeds, the invention resides in certain novel features of construction, and in the combination and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawing:—

Figure 1 is an elevation of the rotary brush,

Figure 2 is a fragmentary elevation showing one side of the frame in a disengaged position,

Figure 3 is a section taken longitudinally through the brush and the frame,

Figure 5 is a fragmentary end view of one side of the frame,

Figure 4 is a sectional view through the brush proper, and

Figure 6 is an elevation of one side of the frame.

Referring to the drawing in detail, it will be seen that A designates generally the fork shaped frame which includes the handle 5, and the sides 6 and 7 mounted on the base 8. The side 6 has formed at its terminal an outwardly extending cylindrical casing 9 having a shaft bearing 10 threaded in the outer end thereof for the reception of a flexible shaft 11 of conventional construction. A tubular pintle 12 extends inwardly from the casing 9 having the head portion 13 thereof fixed in the casing by a set screw 14, or in any other suitable manner. The shaft is adapted to continue through this tubular pintle.

The side 7 is pivoted at its lower end to the base 8, as at 15, and is provided with a groove 16 for receiving an extension 17 of the base 8 when said side is disposed in parallelism with the fixed side 6. A U-shaped member 18 is pivotally engaged as at 19 with the side 7, and fits over the extension 17 and the side 7 thereby holding said side 7 rigidly in parallelism with the side 6. A cylindrical casing 20 is formed on the outer end of the side 7, and extends outwardly. When the side 7 is disposed in parallelism with the side 6 said casing 20 is coaxially aligned with the casing 9. A pintle 21 extends inwardly from the casing 20 having its head 22 slidable therein. A pin 23 extends from the head through an L-shaped slot 24 provided in the casing 20 so that the pintle 21 may be moved inwardly and engaged with the offset portion 25. A cap 26 is threaded to the end of the casing 20 and slidably receives a stem 27, which is threadedly engaged with the head 22 of the pintle 21. A spring 28 is disposed in the casing between the cap 26 and the head 22 and normally holds the pintle 21 in its extended position.

The rotary brush indicated generally by the letter B includes a drum 30 having dis-

posed therein a shaft engaging member 35 having longitudinally extending ribs 35′ on its exterior and located axially within the drum, bristles 31 are disposed in groups, and the groups pierce the drum 30 so as to extend radially therefrom. Said bristles are suitably held in a base or core 30′ within the drum 30 and the hubs 32 are secured in any known manner in the ends of said drum. Bushings 33 are fixed in place in the hubs by set screws 34. The bushings 33 are rotatable on the pintles 12 and 21. The end of the shaft 11 may be projected through the members 10 and 12 and engaged in the member 35.

From the above description it will be seen that by pulling out upon the handle provided on the stem 27, the pintle 21 may be disengaged from the adjacent hub 32 of the brush B, and then by turning the pintle 21 so as to engage the pin 23 in the offset portion 25 of the slot 24, said spring 28 may be held under compression and the pintle 21 is held out of engagement with the brush or in a retracted position.

By releasing the pivoted U-shaped member 18, the side 7 may be swung to the position shown in Figure 2, so that the brush may be removed and reversed, if desired, or another brush may be put in place thereof. It will therefore be seen that the brush is very easily assembled and disassembled with respect to the frame, and therefore may be readily cleansed and sterilized as desired.

The present embodiment of the invention has been disclosed in detail, and has been given merely by way of example. This embodiment of the invention gives excellent results, and attains all the features of advantage enumerated as desirable in the statement of the invention and the above description. It is apparent, however, that numerous changes in the details of construction, in the sizes, in the proportions, and in the combination and arrangement of parts may be resorted to without departing from the spirit or scope of the invention as hereinafter claimed or sacrificing any of its advantages.

Having thus described the invention, what I claim as new and desire to secure by Lettters Patent is:—

1. In a device of the class described, a frame, comprising a fixed side and a hinged side, means for holding the hinged side in parallelism with the fixed side, casings extending outwardly from the sides coaxially aligned when said sides are in parallelism, pintles in the casings, the pintle in the casing, on the hinged side being slidable, means for holding the pintle which is slidable, normally extended, means for retracting the same and a brush adapted to be rotatably supported by said pintles.

2. In a device of the class described, a frame, comprising a fixed side and a hinged side, means for holding the hinged side in parallelism with the fixed side, casings extending outwardly from the sides coaxially aligned when said sides are in parallelism, pintles in the casings, the pintle in the casing on the hinged side being slidable, means for holding the pintle which is slidable normally extended and means for retracting the same, said casing on the hinged side being provided with an L-shaped slot, a pin extending from the pintle in the last mentioned casing through the slot, and a brush adapted to be rotatably supported by said pintles.

3. A frame for receiving a rotary brush adapted to be operated by a flexible shaft and including a handle, a fixed side, a hinged side, means for holding the hinged side in parallelism with the fixed side, cylindrical casings mounted on the ends of the sides, and coaxially aligned when the sides are disposed in parallism, a hollow pintle provided in the casing on the fixed side, a slidable pintle in the other casing, an L-shaped slot in the last mentioned casing, a pin in the slidable pintle extending through the slot, a spring in the last mentioned casing holding the pintle which is slidable, normally extended, means for retracting the slidable pintle, and a brush adapted to be rotatably supported by said pintles.

In testimony whereof I affix my signature.

RALPH ROY KEMMIS.