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2,437,402

VIBRATOR ATTACHMENT FOR ELECTRIC RAZOR ACTUATING INSTRUMENTS

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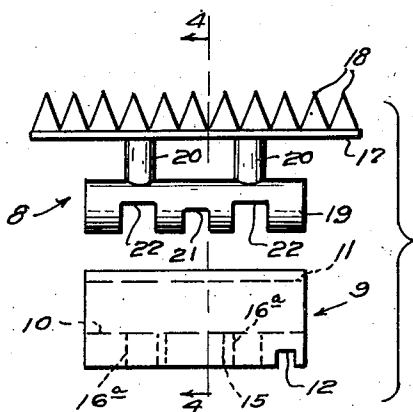


Fig. 1.

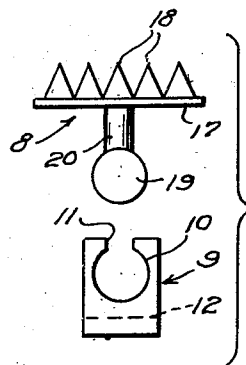


Fig. 2.

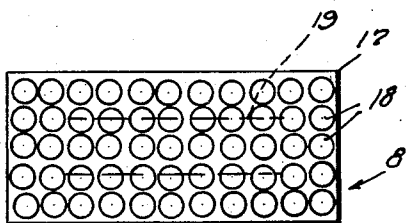


Fig. 3.

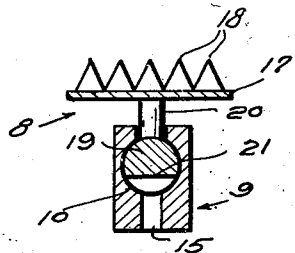


Fig. 4.

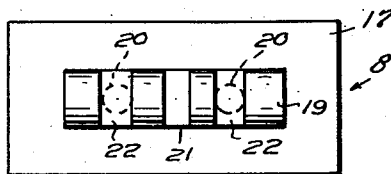


Fig. 5.

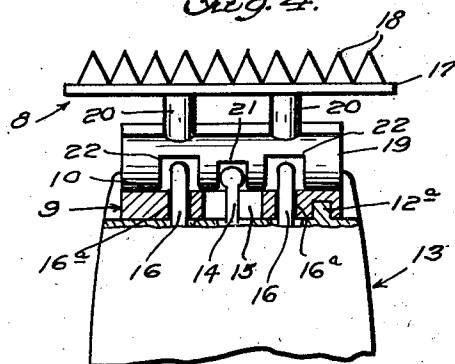


Fig. 7.

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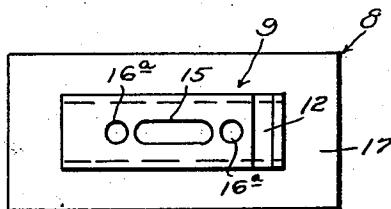


Fig. 6.

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UNITED STATES PATENT OFFICE

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VIBRATOR ATTACHMENT FOR ELECTRIC
RAZOR ACTUATING INSTRUMENTS

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2 Claims. (Cl. 128-49)

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This invention relates to a new and novel attachment in the form of a vibrator or stimulator for the human skin and scalp, said attachment being expressly constructed and designed to replace the removable razor head on a conventional electric razor actuating instrument, whereby to use the existing or stock drive of the razor head as the actuating means for said vibrator.

In carrying out the principles of the invention, I provide a vibrator unit attachment which is characterized by two coacting parts, one of said parts being in the form of an adapter and the other part serving as the vibrator head.

In accordance with my aims, I thus produce a vibrator unit attachment which is simple, economical, easy to mount and remove and which is otherwise aptly fitted to accomplish satisfactory and desirable results.

Other features and advantages will become more readily apparent from the following description and the accompanying illustrative drawings.

In the drawings, wherein like numerals are employed to designate like elements and parts throughout the views:

Figure 1 is a side elevational view of the attachment, this comprising the adapter and vibrator head.

Figure 2 is an end elevation of the assemblage seen in Figure 1 in a plane at a right angle thereto.

Figure 3 is a top plan view of the stimulator type vibrator head.

Figure 4 is a cross section on the plane of the line 4-4 of Figure 1 with the parts assembled.

Figure 5 is a bottom plan view of the vibrator head.

Figure 6 is a bottom plan view of the assemblage seen in Figure 4.

Figure 7 is a view partly in section and partly in elevation showing a fragmentary portion of the conventional electric razor actuating instrument, the razor head being replaced by the vibrator unit attachment in operating position.

Referring now to the drawings by distinguishing reference numerals it will be seen that the vibrator head is denoted, as a unit, by the numeral 8 and the adapter is indicated at 9. The adapter as shown in the drawings, comprises a substantially rectangular block formed with a keyhole-shaped recess, the latter defining a slide-way 10 and an entrance opening or slot 11 communicating with said slide-way. At the right-hand end as shown in Figure 1, is a keeper notch 12, this to accommodate an existing keeper lug

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(see Figure 7) 12a in the slotted head of the conventional electric razor actuating instrument, shown partly at 13. In connection with the razor actuating instrument, and while considering the same, it will be seen that the headed trigger is indicated at 14 in Figure 7, the said trigger moving from side to side in an accommodation slot 15 in the adapter. The assembling and retaining stationary prongs 16 of the actuating instrument fit into accommodation holes 16a in said adapter. The slot and accommodation holes open into said slide-way. Thus, the adapter is constructed to accommodate the lug 12a, the actuating trigger or finger 14 and the two retention lugs or pins 16. The external shape and proportions of the adapter is such as to allow the same to be mounted into the grooved or slotted head of the body of said razor actuating instrument after the razor head has been taken out. The particular razor actuating instrument shown is of the "Schick" shaver type.

The vibrator head comprises a substantially rectangular plate 17 with stimulator teats 18 thereon. The reciprocator is indicated at 19, this being substantially cylindrical in cross-sectional form and being attached in parallel spaced relation to the plate by way of suitable studs 20. In its bottom the reciprocator 19 is provided with a central kerf or notch 21 to join with the ball-head of the actuator finger 14 as brought out in Figure 7. On opposite sides of the central notch I provide additional keeper and wider notches 22 to accommodate the studs 16 and to allow the limited reciprocation motion applicable by the part 14 to said head.

In practice, the cutter head of the razor 13 is generally held in place by a set-screw (not shown). Therefore, by loosening the set screw, the cutter head is removed and the attachment unit, made up of the complementary parts 8 and 9, as described in this application, is substituted therefor as illustrated in Figure 7. That is to say, the adapter 9 fits down into the grooved end of the razor actuating instrument with the pins or lugs 16 extending up through and beyond the accommodation holes 16a, said extending ends seating in the motion regulating notches 22. The actuating finger 14 works from side to side in the slot 15 and extends up through the slot and into the driving kerf or notch 21. Consequently, when the razor is "turned on" the vibrator head 8 shifts from side to side in relation to the adapter to provide the desired stimulating or vibrator results. As stated, the device can be used for

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scalp and skin vibrating and stimulating purposes.

It is thought that persons skilled in the art to which the invention relates will be able to obtain a clear understanding of the invention after considering the description in connection with the drawings. Therefore, a more lengthy description is regarded as unnecessary.

Minor changes in the shape, size and arrangement of details coming within the field of invention claimed may be resorted to in actual practice, if desired.

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

1. A vibrator attachment for mechanical-electric dry razor actuating means comprising in combination, an adapter in the form of a rectangular block having predetermined proportions, the outer half portion of said block having a longitudinal channel opening through opposite transverse ends of the block and forming a slide-way, said channel further opening into an entrance slot which, in turn, opens through the outer longitudinal face of said block, the bottom of the block having a keeper notch at one end, a centrally elongated slot, and pin accommodating holes on opposite sides of the ends of said slot, said slot and pin holes opening into said slide-way, and a vibrator head comprising a substantially rectangular plate provided on its outer face with a multiplicity of massaging teats, and provided on the opposite inner face intermediate and inwardly of outer transverse ends with a pair of duplicate spaced parallel right angularly disposed studs, said studs extending into said entrance slot and being provided on their inner ends with a cylindrical reciprocating member, said member being operable in said slide-way, the studs being at right angles to the plate and

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member and said member being parallel and spaced in relation to the plate, the lower half portion of said cylindrical reciprocating member being provided with a central notch and a pair of larger and keeper notches on opposite sides of said central notch.

2. As a new article of manufacture and as a component unit of a razor attachment of the class described, a vibrator head comprising a substantially rectangular plate provided on its outer face with a multiplicity of massaging teats, provided on the opposite inner face intermediate and inwardly of outer transverse ends with a pair of duplicate spaced parallel right angularly disposed studs, and having a cylindrical reciprocating member, said member being connected with said studs and being in spaced parallelism to the inner face of said plate, the lower half portion of said cylindrical reciprocating member being provided with a central notch and a pair of larger keeper notches on opposite sides of said central notch.

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