

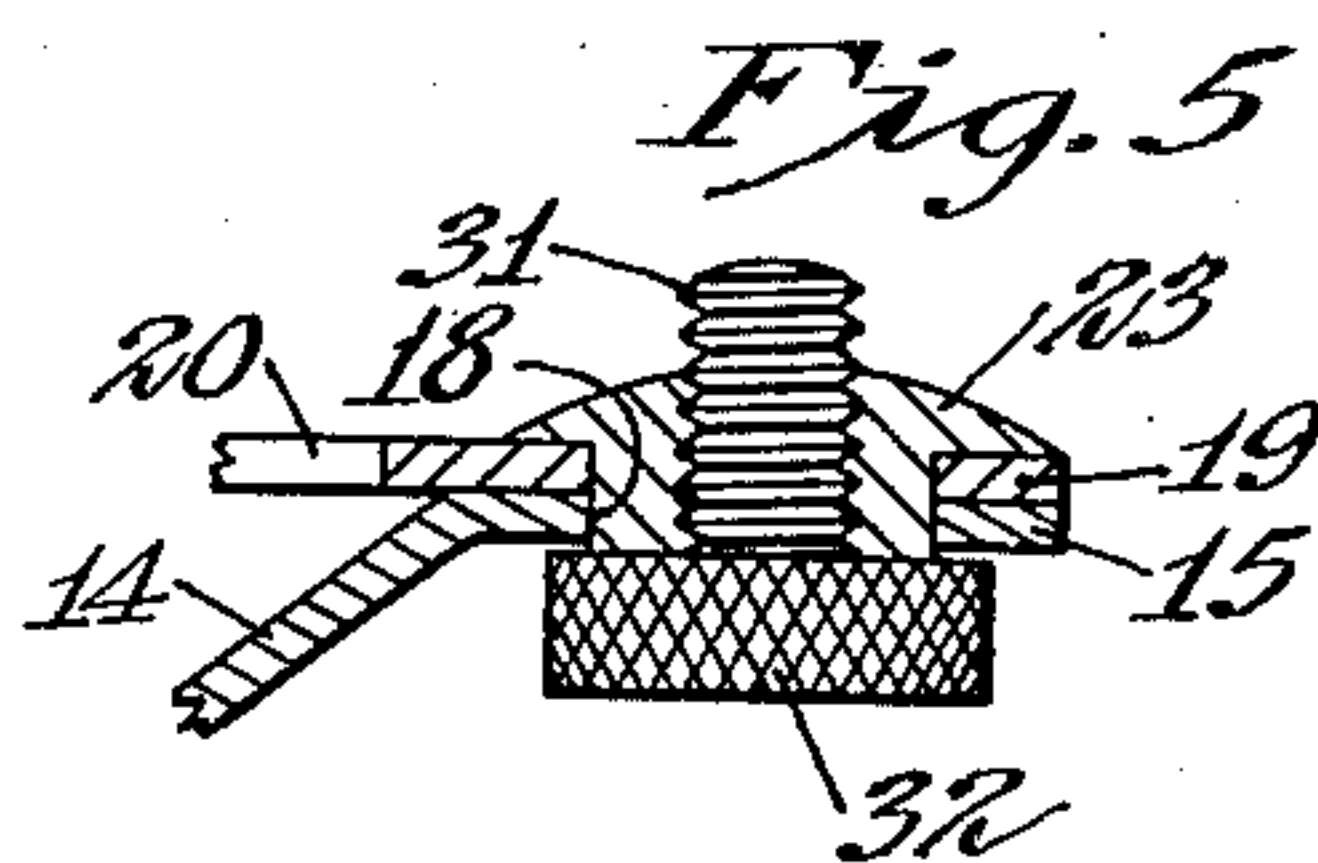
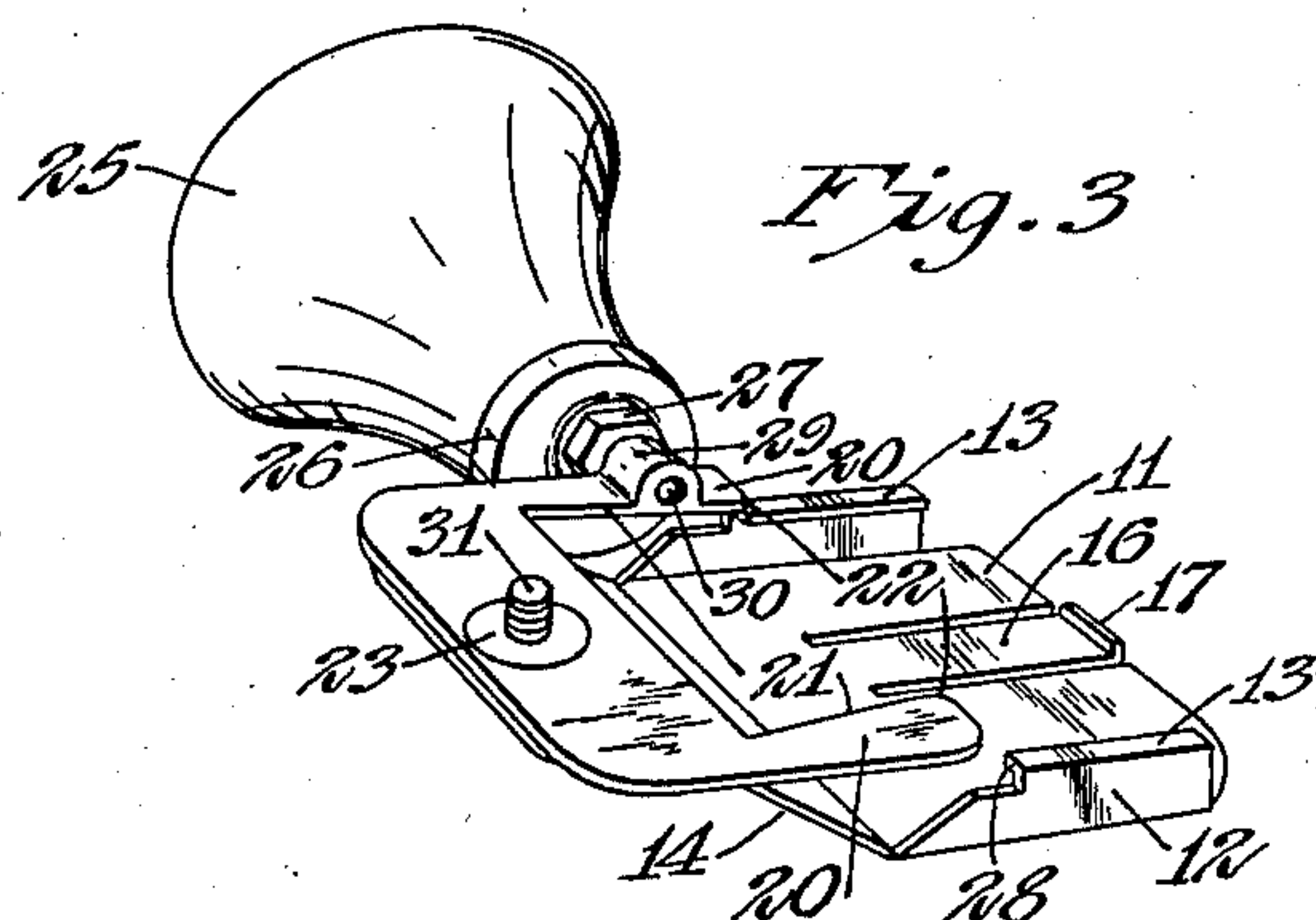
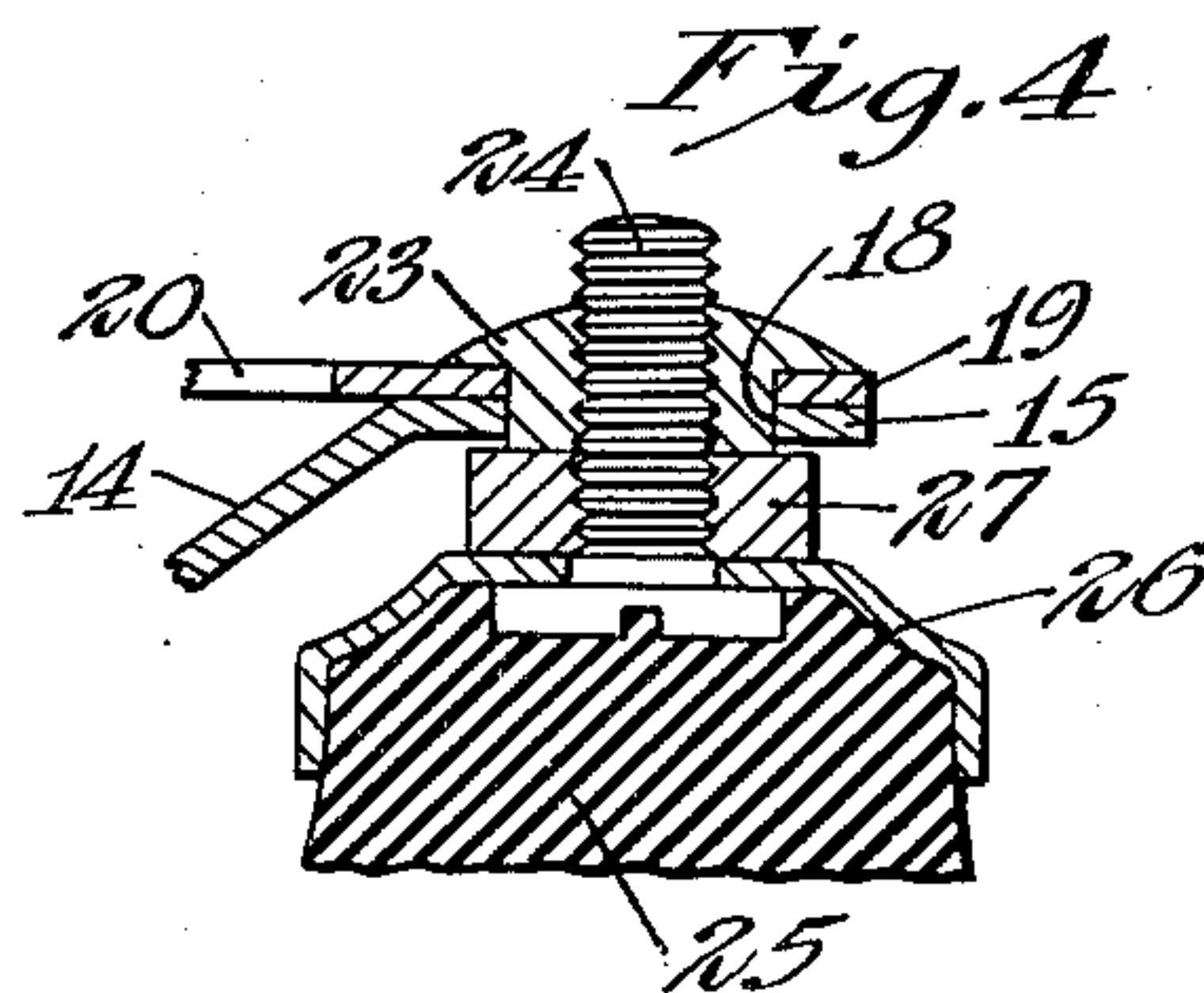
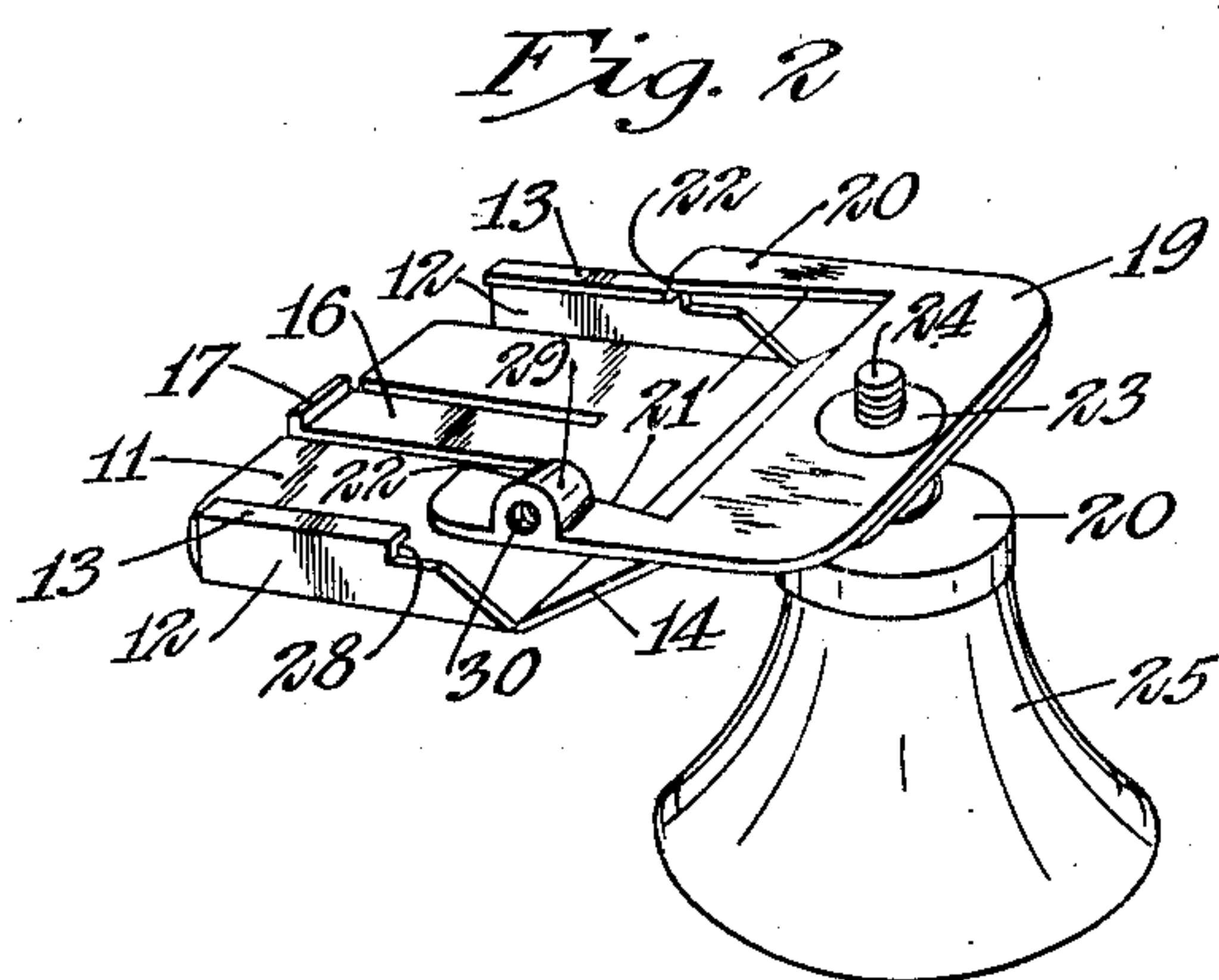
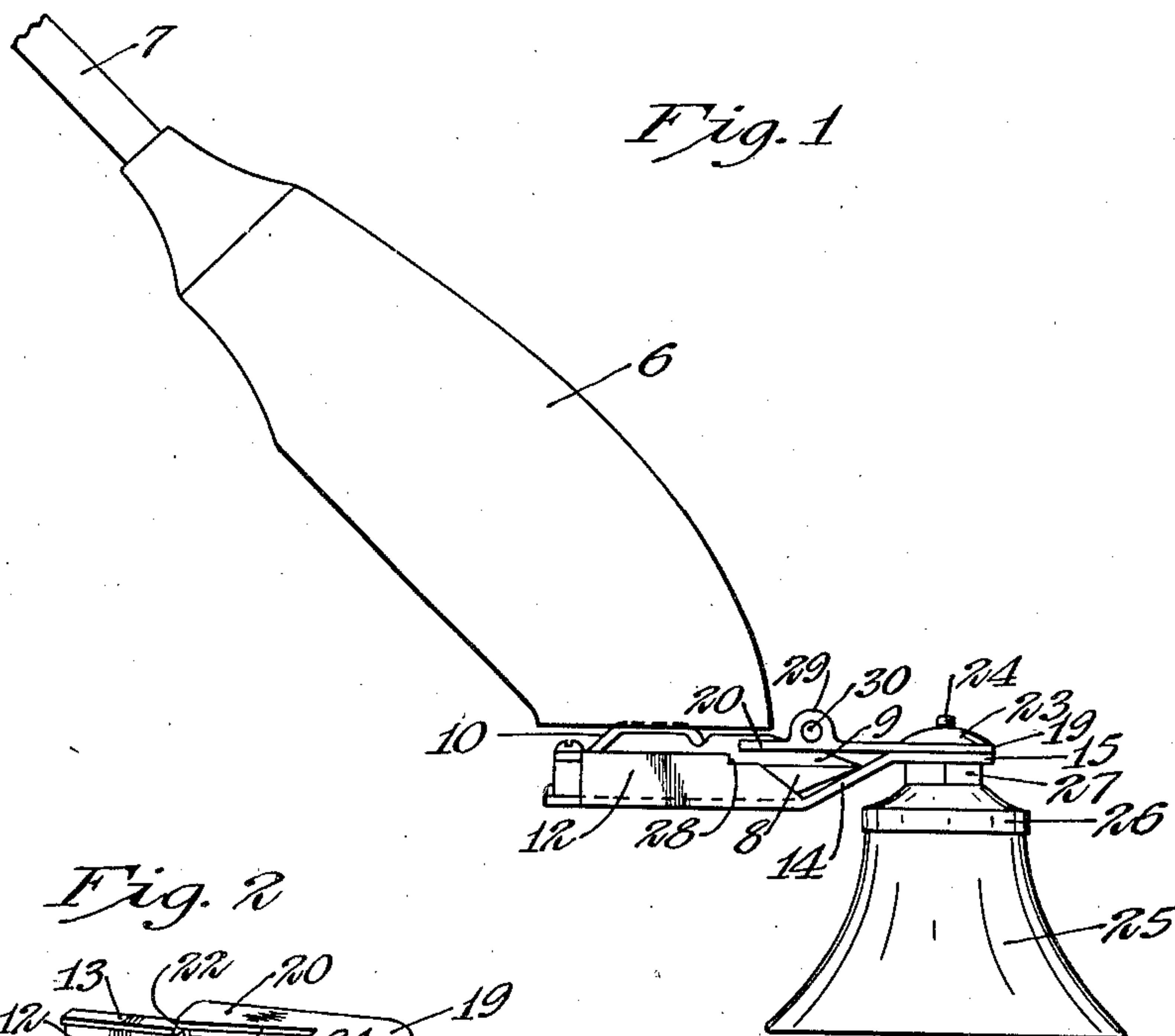
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2,149,152

MASSAGING VIBRATOR

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## UNITED STATES PATENT OFFICE

2,149,152

## MASSAGING VIBRATOR

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5 Claims. (Cl. 128—52)

This invention relates to massaging devices and more particularly to massage attachments which are adapted to be utilized with the well known electric clippers such as are used in barber shops.

5 Frequently patrons of barber shops will request facial massages and it is the customary practice for barbers to massage the faces of men which have been just shaved. A massage of this kind naturally is not a very heavy one so that  
10 it is not necessary to use a very powerful massage device. If the barber desires to use a power operated massage device it is necessary for him to buy a complete massage unit including an electric motor. The motor, of course, is the most  
15 expensive part of an implement of this type.

It is, therefore, a general object of my invention to provide a massage device wherein the motive power may be supplied by an electric clipper such as is nearly always found in a barber  
20 shop.

Another object of the invention is the provision of a massage attachment for clippers which can be operated by the clipper motor without detaching the cutting blades therefrom.

25 Still another object of the invention is the provision of a massage attachment for clippers which can be quickly applied and easily removed and which is operated by the movement of one clipper blade relative to the other.

30 A further object of the invention is the provision of a massage attachment for clippers in which the massage element may be oscillated or reciprocated as desired.

These and other objects and advantages of the  
35 invention will more fully appear from the following description made in connection with the accompanying drawing, wherein like reference characters refer to the same or similar parts throughout the views, and, in which:

40 Fig. 1 is a side elevation of a pair of electric clippers with my invention attached thereto;

Fig. 2 is a perspective view of the attachment with the massage device in one position;

45 Fig. 3 is a perspective view with the massage device in another position;

Fig. 4 is a sectional detail of the connection of the massage cup in the position shown in Fig. 2; and

50 Fig. 5 is a sectional detail showing the connection between the relatively movable parts of the attachment when the massage device is arranged as in Fig. 3.

This invention is generally along the lines of my invention for a Massaging vibrator, S. N.  
55 221,757, filed July 28, 1938.

In Fig. 1 there is shown an electric motor 6 which may be of any suitable design and which may be connected by an electrical conductor 7 to a source of electrical energy. Mounted at the lower end of the motor is a pair of clipper blades, the lowermost blade 8 being customarily rigidly secured to the motor casing, and the upper blade 9 being connected to a moving part of said motor and adapted to reciprocate with respect to the lower blade 8. A suitable spring element 10 holds  
10 the two blades in sliding contact. The operation of the blades and the blade supporting structure are not indicated in the drawing since any type of reciprocating blade clippers may be utilized and the clipper structure itself is unimportant. 15  
The only thing about the clipper blades which need be mentioned is that the lower blade 8 is generally wider than the upper reciprocating blade 9.

My attachment comprises a body plate 11 which  
20 has upturned side portions 12 and at least a part of the upper edges of said side portions are bent inwardly toward each other, as shown at 13. The sides 12 and their inwardly turned portions 13 are adapted to fit over the ends of the  
25 lower stationary clipper blade 8 and the body plate 11 is pushed backwardly to substantially enclose the ends and bottom of the stationary lower clipper blade 8. The forward portion of the plate 11 is bent upwardly at an angle as indicated at 14, and the extreme forward edge of the body plate 11 is bent to provide a forward  
30 horizontal portion 15. A tongue 16 is cut into the medial portion of the body plate 11 from the rear edge thereof and said tongue has a small  
35 upwardly turned catch 17 which is adapted to snap up behind the rear edge of the stationary clipper blade 8 to retain the attachment thereon.

The horizontal forward portion 15 on the body plate 11 is provided with an aperture 18. A massage device operating element 19 is provided with  
40 a transverse horizontal forward portion which may more or less coincide with the horizontal forward portion of the body plate 11 and rest thereon in sliding contact therewith, and said operating  
45 element 19 has a pair of rearwardly extending arms 20, the inner sides of said arms preferably being slanted as at 21 and the inner rear corners of said arms being rounded as at 22. The arms 20 are adapted to contact the end faces of  
50 the upper movable clipper blade 9.

The forward portion of the operating element 19 is provided with an apertured internally threaded bearing element 23 which, as shown in Fig. 4, extends down through the aperture 18 in the for-  
55



ward portion 15 of the body plate 11, and said bearing element 23 is preferably of sufficient height to extend through the body plate portion 15 a distance slightly greater than the thickness of said plate portion, and the element 23 and the aperture 18 are round so that said bearing element can be freely oscillated therein. The threaded aperture in the bearing element 23 is adapted to receive a small bolt 24 which extends upwardly out of the top of the massage cup 25 and its cap element 26. A washer or collar 27 on said bolt 24 is adapted to abut against the under side of the bearing element 23 so that when said operating element 19 with its arms 20 is reciprocated by the upper movable clipper blade 9, the massage element will be similarly actuated and regardless of how tightly the massage element 25 is secured to the bearing element 23 the movement will be free due to the fact that the collar 27 is held slightly away from the horizontal forward body plate portion 15 of said bearing element 23.

If desired the upturned wall portions 12 on the body plate may be provided with notches 28 in their upper forward corners to prevent any possible striking of the walls 12 by the operating arms 20.

The foregoing description relates to the device with the massage element extending downwardly from the central forward portion thereof to provide for oscillation of the massage cup 25 due to the oscillatory action of the element 19 and its arms 20. At times, however, it is desirable to have a more pronounced movement of the massage device than the relatively smooth action thereof when it is oscillated. The arrangement shown in Figs. 3 and 5 provides for reciprocating action of the massage cup. In order to produce this action a small lug 29 is provided on one or both of the arms 20 as desired. This lug has a threaded aperture 30 which is adapted to receive the threaded bolt 24 which extends from the top of the massage cup 25. When the massage cup is attached to the lug 29 a small threaded bolt 31 is fed into the apertured bearing element 23 to hold the body plate 11 and the operating plate 19 together for movement similar to the movement of those plates when the massage cup 25 is threaded into the bearing 23. Thus the device can be quickly changed from one which oscillates the massage cup to one which reciprocates the massage cup. Entirely different massage effects are produced by this change of the location and actuation of the massage cup. The enlarged knurled head 32 on the bolt 31 takes the place of the collar 27 shown in Fig. 4.

From the foregoing it will be seen that I have provided a simply constructed massage attachment for electric clippers which can be easily applied and removed without removing or adjusting the clipper blades 8 and 9, and the massage attachment is one which can itself be arranged to provide for delicate oscillatory action of the cup or for more strenuous reciprocatory action thereof. To attach the device to the electric clippers it is necessary only to slip the lower plate 11 with

its sides 12 and inwardly extending flanges 13 over the lower clipper blade which as was explained is wider than the upper clipper blade and the attachment is positioned backwardly over the lower blade until the catch 17 snaps up behind the blade. Removal thereof is accomplished by pressing down the catch 17 and slipping the attachment off the clipper blade.

It will, of course, be understood that various changes may be made in the form, details, arrangement and proportions of the various parts without departing from the scope of my invention.

What is claimed is:

1. An attachment for clippers whereon one clipper blade reciprocates relative to the other comprising a body element having means for detachably securing the same to one of the blades of a clipper, an operating arm movable relative to said body and arranged for movement with said other clipper blade, and a massage device connected to said operating element for reciprocation with said element along the axis of said massage device.

2. The structure in claim 1 and said massage device being adjustable relative to said operating element to provide for oscillatory movement of the massage device as distinguished for reciprocating movement thereof.

3. In an attachment for clippers wherein one clipper blade reciprocates relative to the other comprising a body plate having substantially vertical side walls with inwardly turned upper edges said body plate being adapted to slip over one of the clipper blades, an operating element supported for movement on said body plate, a massage element, and means for connecting said massage element to said operating element whereby the axis of said massage element is in substantially the same plane as the plane of movement of said operating element.

4. The structure in claim 3 and means for securing said massage element to said operating element with the axis of said massage element at an angle to the plane of movement of said operating element.

5. An attachment for clippers wherein one clipper blade reciprocates relative to the other, comprising a body plate adapted to be secured to one clipper blade and having an aperture therein, an operating element adapted to lie in the path of movement of said other clipper blade and having a threaded bearing element associated therewith, said bearing element extending through the aperture in said body plate, said operating element having a threaded aperture at one point thereon, a massage element having a threaded bolt adapted to connect with said threaded bearing element and also adapted to connect with the apertured portion of said operating element, and a threaded bolt adapted to fit into said threaded bearing element when said massage element is threaded into the apertured portion of said operating element.

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