

March 6, 1951

H. L. ASHMEAD
NAIL FILE VIBRATOR DEVICE

2,544,248

Filed June 22, 1948

2 Sheets-Sheet 1

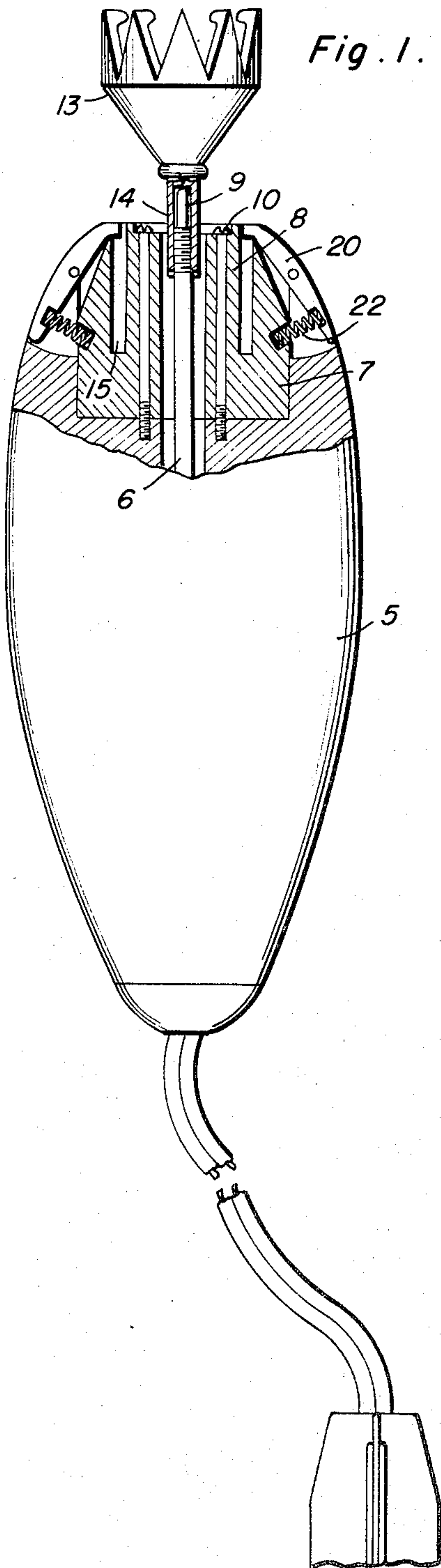


Fig. 1.

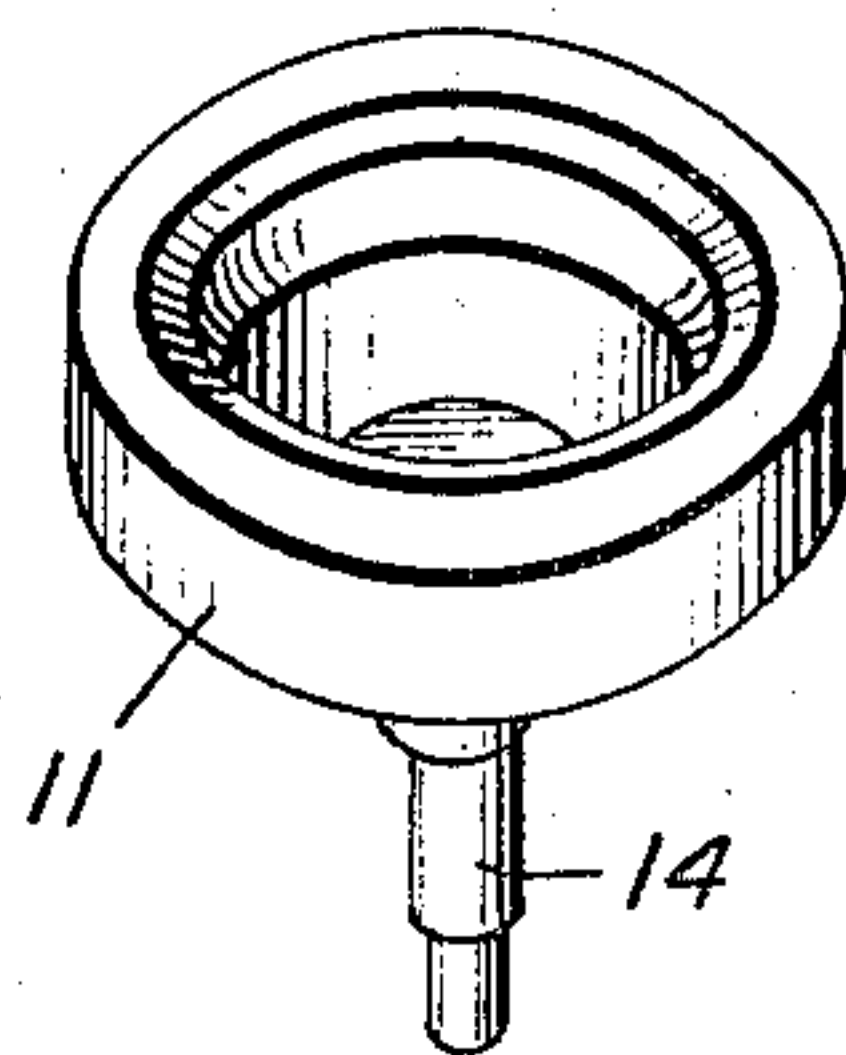


Fig. 3.

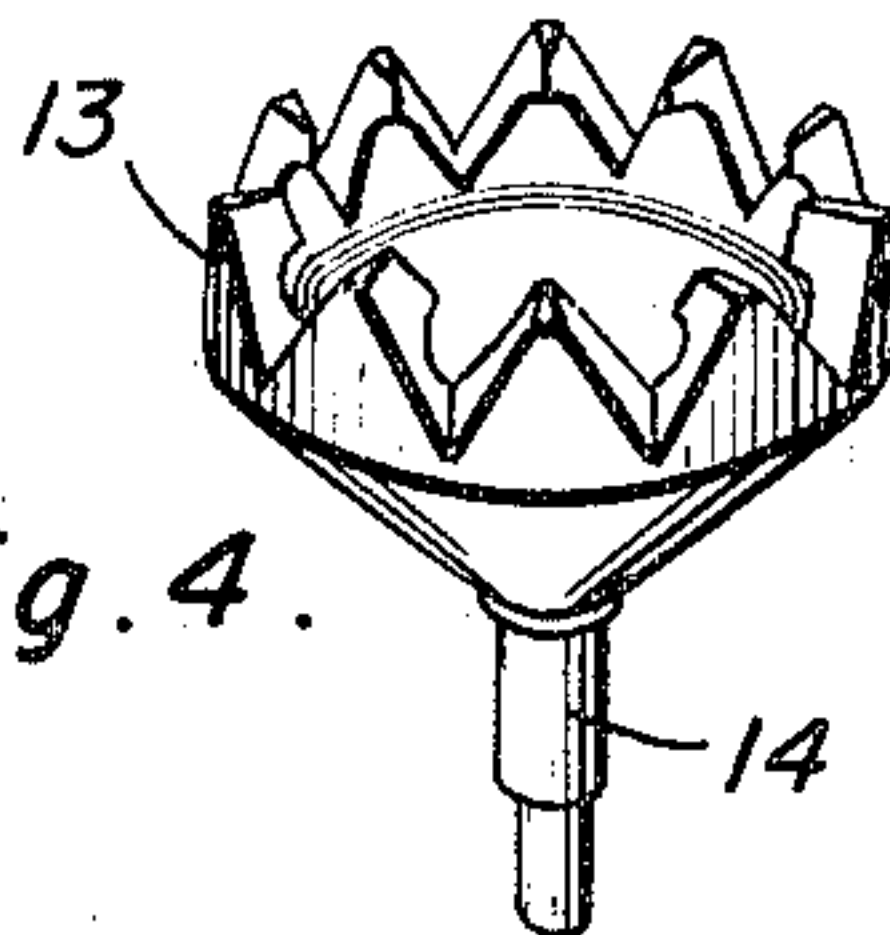
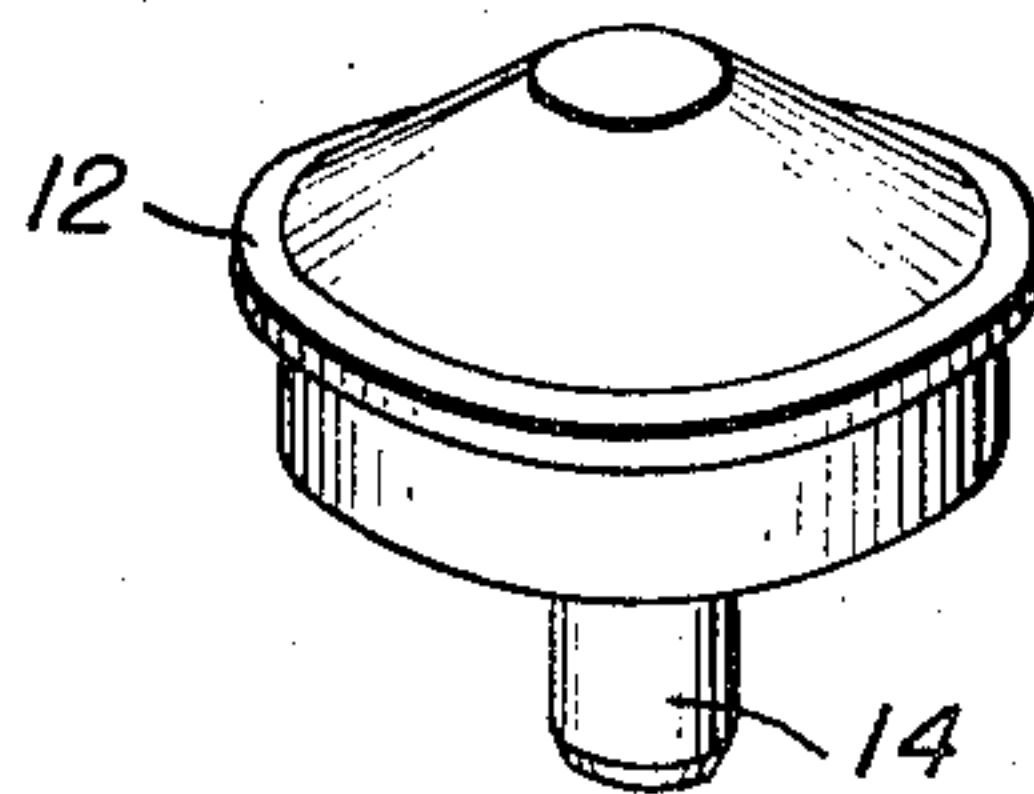


Fig. 4.

Inventor

Harry L. Ashmead

 B_1

Clarence A. O'Brien
and Harvey B. Jacobson
Attorneys

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H. L. ASHMEAD

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2 Sheets-Sheet 2

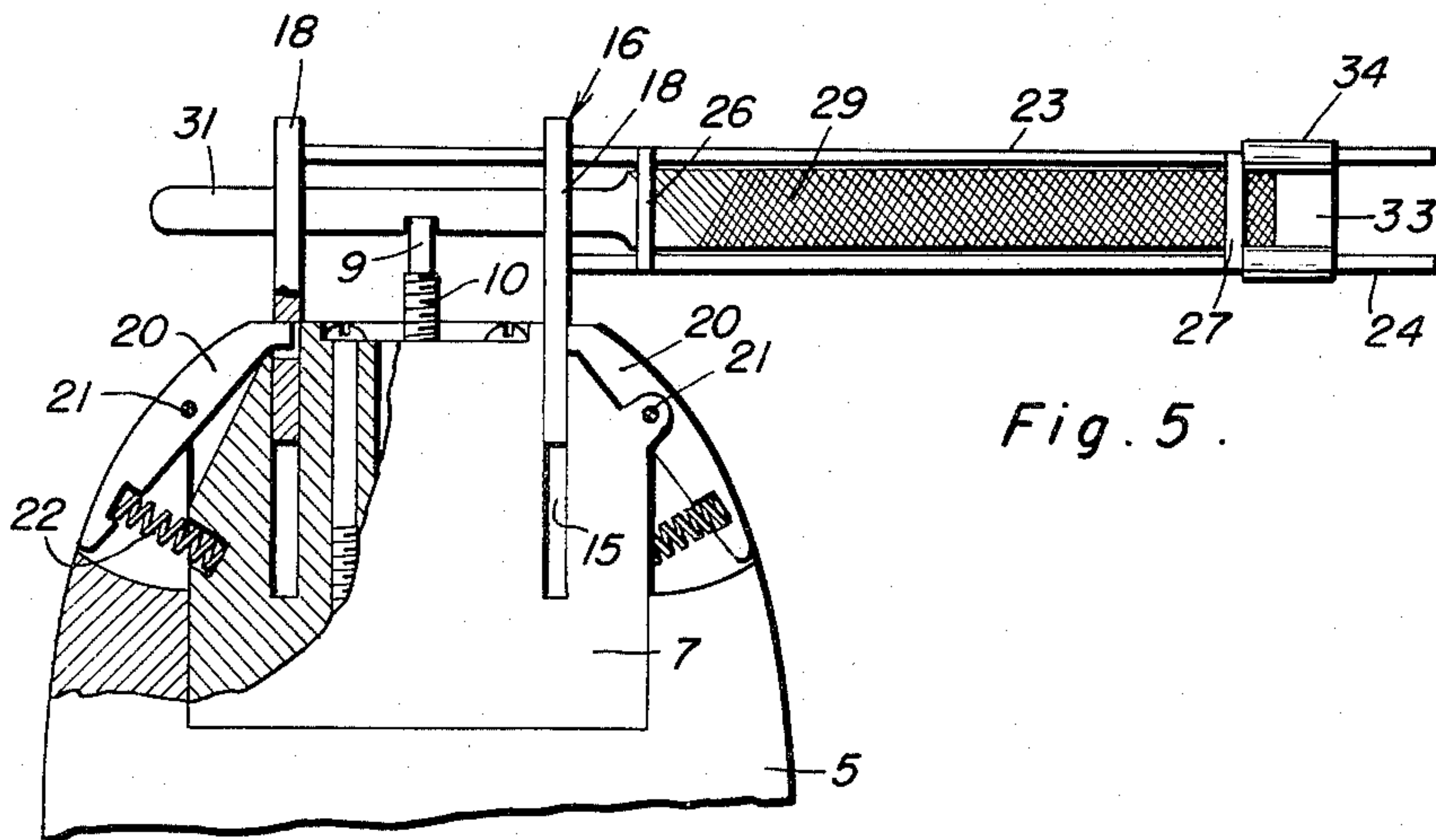


Fig. 5.

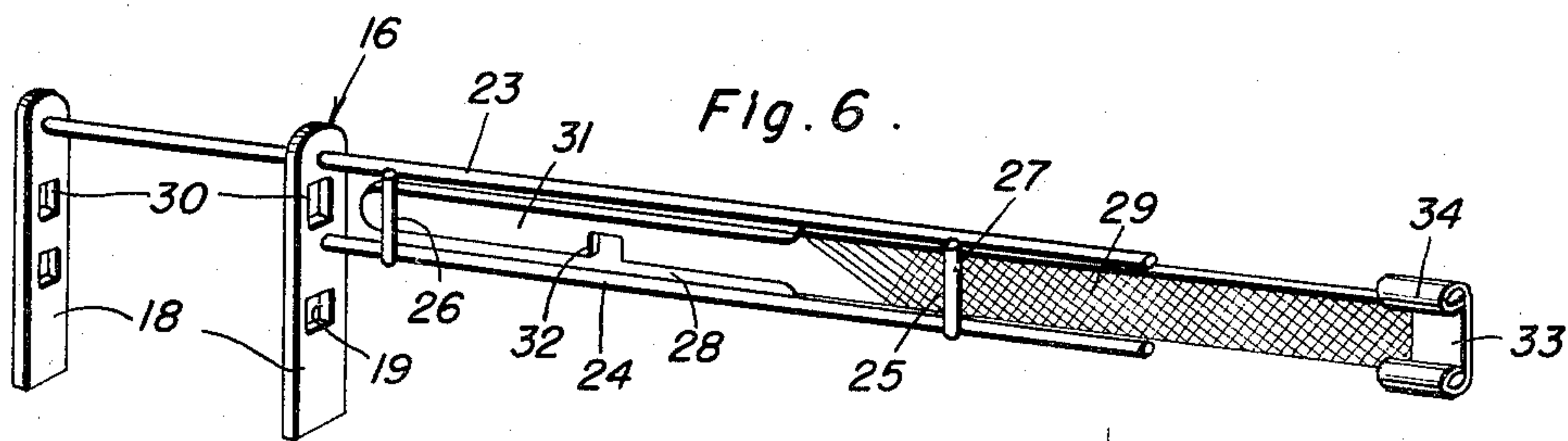


Fig. 6.

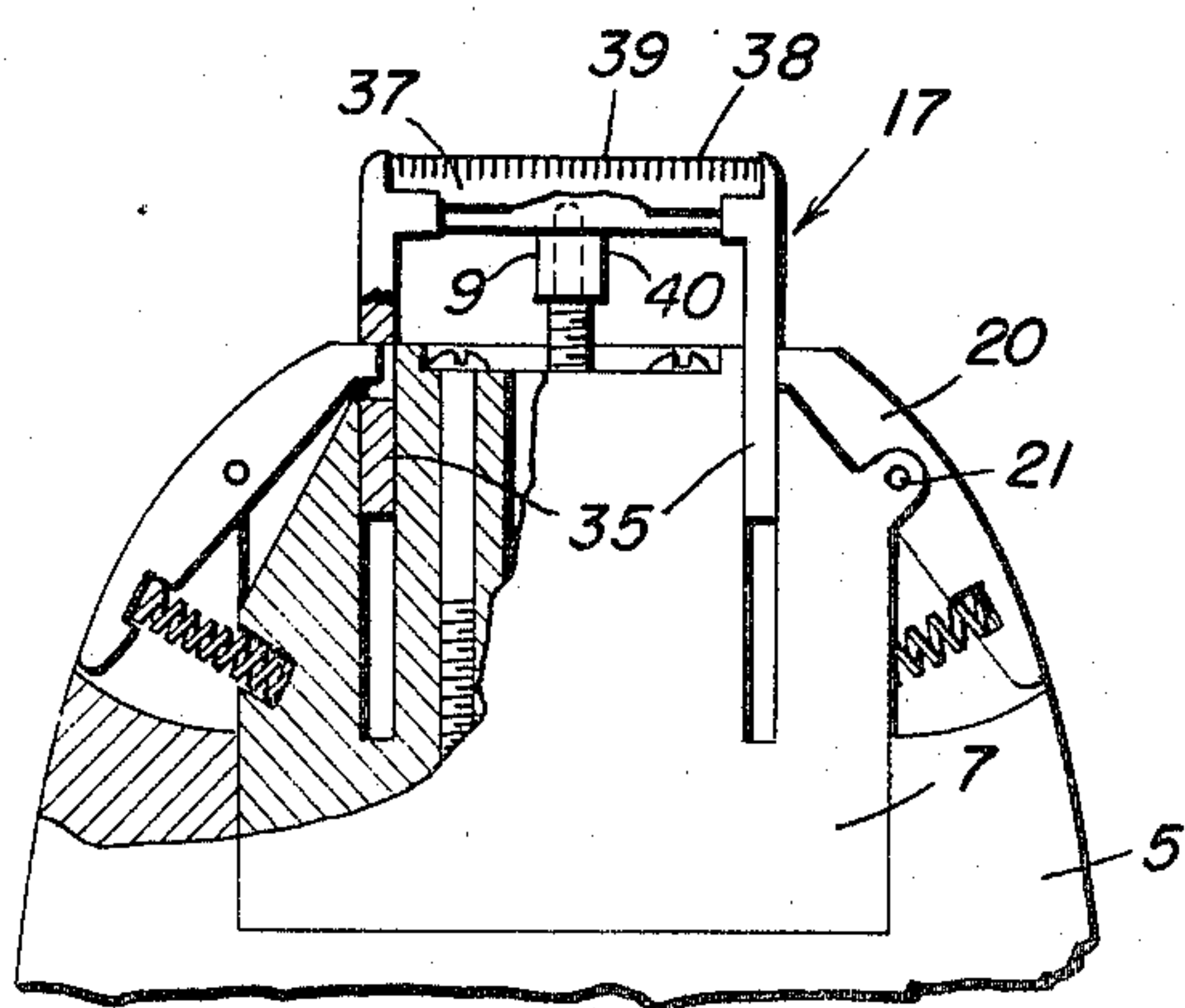


Fig. 7.

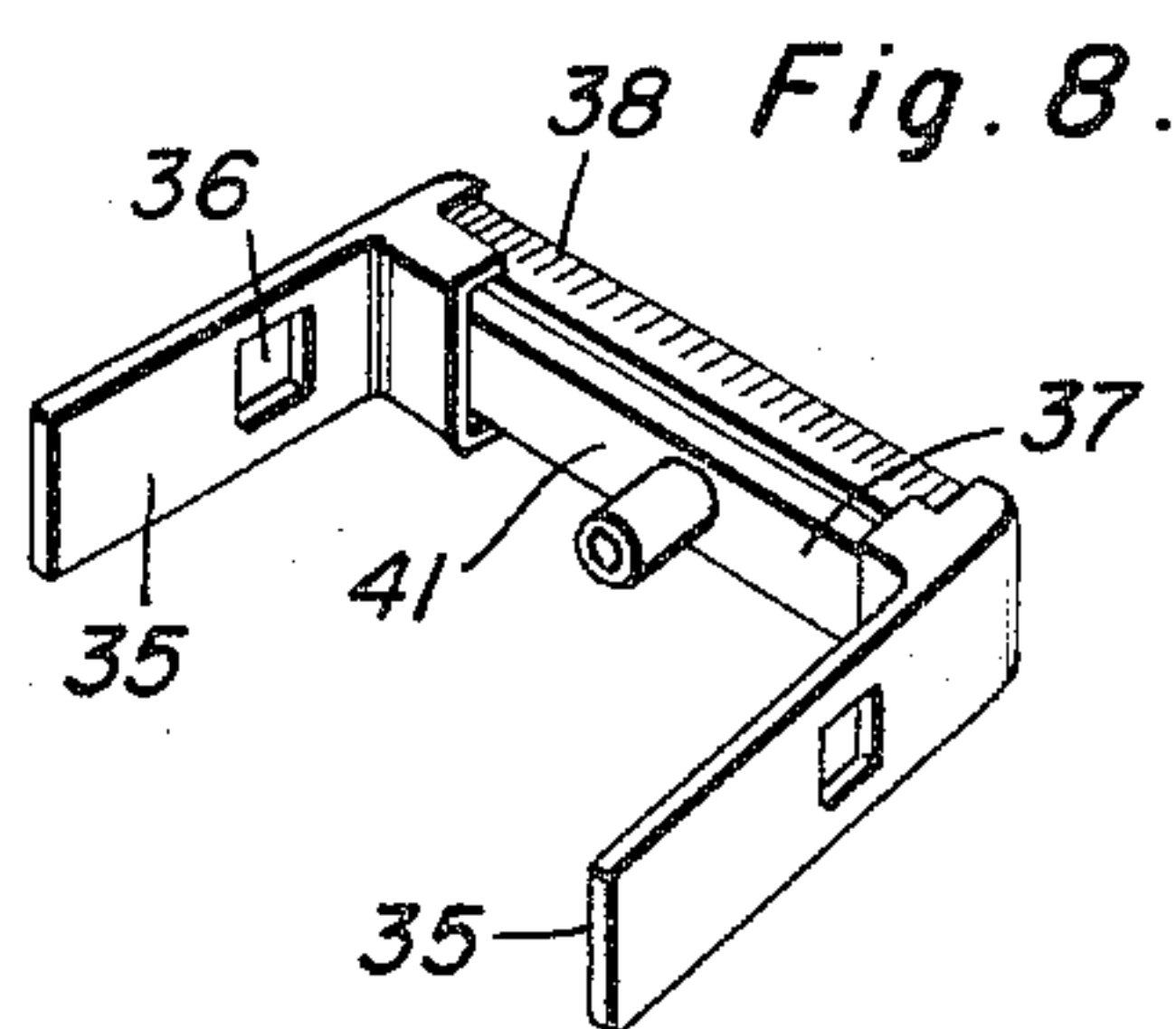


Fig. 8.

Inventor

Harry L. Ashmead

By

Clarence A. O'Brien
and Harvey B. Jackson
Attorneys

UNITED STATES PATENT OFFICE

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NAIL FILE VIBRATOR DEVICE

Harry L. Ashmead, Yountville, Calif., assignor of
fifty per cent to Frances O. Ashmead, Douglas,
Wyo.

Application June 22, 1948, Serial No. 34,467

4 Claims. (Cl. 132-75.8)

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This present invention relates generally to attachments for portable electric vibrating motors and more particularly to means for interchangeably attaching an electric razor, manicuring implement or massaging devices to the vibrating arm of the motor.

A further object of the invention is to provide a head for the motor casing and by means of which the several attachments may be easily and quickly placed in position in operative engagement with the vibrating arm of the motor.

A still further object is the provision of an apparatus of this character of simple and practical construction, which is efficient and reliable in operation, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a side elevational view of a portable electric vibrating motor with parts broken away and shown in section and showing one of the massage attachments mounted thereon;

Figures 2, 3 and 4 are perspective views illustrating modified massage attachments;

Figure 5 is an enlarged fragmentary side elevational view with parts broken away and shown in section and showing a manicuring file attachment connected to the motor;

Figure 6 is a perspective view of the file attachment;

Figure 7 is an enlarged fragmentary side elevational view with parts broken away and shown in section and showing a razor attachment connected to the vibrating arm of the motor, and

Figure 8 is a perspective view of the electric razor attachment.

Referring now to the drawings in detail, wherein for the purpose of illustration I have disclosed a preferred embodiment of the invention, the numeral 5 designates the casing of a portable vibrating type of electric motor which is well known in the art for operating electric razors and the like. The motor includes a vibrating arm 6 which extends outwardly at one end of the casing and through a head 7 recessed in the outer end of the casing and secured thereto by bolts or similar fasteners 8. The vibrating arm 6 is formed with a reduced outer end 9 and a threaded portion 10 inwardly of its reduced stem 9. It will be understood that the arm 6 is free to

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vibrate in the outer end of casing 5 and head 7.

Massage cups or heads of rubber or other suitable material and of a desired shape such as shown at 11, 12 or 13 in Figures 2, 3 and 4, respectively, of the drawings, are interchangeably connected to the vibrator arm 6 by means of an internally threaded socket 14 at the inner end of the massage device for threaded engagement with the threaded portion 10 of the arm.

The outer end of head 7 is also formed with a pair of recesses 15 positioned at diametrically opposite sides of the arm 6 for interchangeably mounting a manicure attachment shown generally at 16 in Figures 5 and 6 of the drawings to the head or for interchangeably mounting an electric razor attachment shown generally at 17 in Figures 7 and 8 to the head. The manicure attachment 16 includes a pair of legs 18 inserted in the respective recesses 15 of the head, each leg having an opening 19 adjacent its inner end engaged by one end of a locking dog or catch 20 pivoted intermediate its ends on a pin 21 at the outer edge of the head and providing a coil spring 22 behind the other end of the catch to hold the catch in locking engagement with the legs 18.

A rod 23 connects the outer ends of the legs 18 and projects laterally at one side thereof and a second rod 24 is secured in spaced parallel relation to rod 23 by cross bars or spacers 25. The cross bars 25 are suitably secured to the sides of the rods 23 and 24 and include at least one inner and outer cross bars 26 and 27, respectively, secured to one side of the rods 23 and 24 and an intermediate cross bar 28 which is secured to an opposite side of the rods. The cross bars form guides for a nail file 29 which is positioned between the rods 23 and 29 and slidably held in position by the cross bars 26, 27 and 28 which serve as guides for the nail file.

Aligned openings 30 are formed adjacent the outer ends of legs 18 in which the inner end 31 of the nail file is slidably received in a position transversely of the outer end of head 7 and the inner edge portion of the end 31 of the nail file is formed with a notch 32 for engagement by the reduced end portion 9 of the vibrating arm 6.

A plate 33 is suitably secured to the outer end of nail file 29 with the ends of the plate rolled to form guide sleeves 34 which are slidably received on the outer ends of rods 23 and 24.

In the operation of this form of the attachment and with the legs 18 secured in the recesses 15 of the head 7 and the outer reduced end 9 of vibrating arm 6 engaged in notch 32 of the

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nail file, the file will be reciprocated to thus file the nail of a person held against the same.

The electric razor attachment shown at 17 in Figures 7 and 8 of the drawings also includes a pair of legs 35 for insertion in the recesses 15 of the head 7, each leg also including an opening 36 for locking engagement by the catches 20.

The electric razor attachment is of substantially U-shaped construction and includes a cross bar or head 37 rigidly connecting the outer ends of the legs. A hollow guard 38 is carried at the outer surface of head 37 and in which the blade 39 works, in the usual manner, the guard and blade being of a conventional type of electric razor construction.

The underside of the blade is formed with a socket 40 projecting freely rearwardly through an opening 41 in head 37 for insertion on to the reduced end portion 9 of the vibrating arm, the vibrating arm thus reciprocating the blade in the usual manner.

From the foregoing it will be apparent that either the manicuring attachment 16 or the electric razor attachment 17 may be easily and quickly mounted in position in the recesses 15 of head 7 and removed therefrom by releasing the catches 20.

When the manicuring or electric razor attachments are not mounted in position on the head 7 any one of the massaging devices 11, 12 or 13 may then be attached to the vibrating arm.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the construction, operation and advantages of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claims.

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

1. In combination, a motor casing forming a handle having a vibrating arm projecting from its outer end, said casing having a recess in its outer end, a head in the recess and having a central opening freely receiving the vibrating arm, an implement attachment, means carried by the casing holding the head attached to the casing and also holding the implement attachment attached to the head, and an implement supported

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on said attachment in a position for operation by said arm.

2. In combination, a motor casing forming a handle having a vibrating arm projecting from its outer end, said casing having a recess in its outer end, a head positioned in the recess, a pair of catches on the casing holding the head therein, said head having a central opening freely receiving the vibrating arm, said head also having a pair of recesses, an implement attachment including a pair of legs positioned in said pair of recesses and engaged by said catches to hold the attachment connected to the head, and a reciprocable implement supported on said legs and having interfitting engagement with the outer end of the arm for operation thereby.

3. In combination, a motor casing forming a handle having a vibrating arm projecting from its outer end, said casing having a pair of recesses in its outer end, an implement attachment including a pair of legs detachably secured in said recesses, and an implement supported on said legs in a position for operation by said arm, said implement including a reciprocable nail file having interfitting engagement with the outer end of the arm for operation thereby.

4. In combination, a motor casing forming a handle having a vibrating arm projecting from its outer end, said casing having a pair of recesses in its outer end, an implement attachment including a pair of legs detachably secured in said recesses, and an implement supported on said legs in a position for operation by said arm, said implement including a pair of guide rods projecting angularly from the legs, and a nail file slidably supported between the rods and having operating engagement with the outer end of the arm.

HARRY L. ASHMEAD.

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