April 29, 1941. V. ARIZA 2,239,870

ELECTRIC FINGERNAIL FILE

Filed Aug. 26, 1940

Fig. 1.

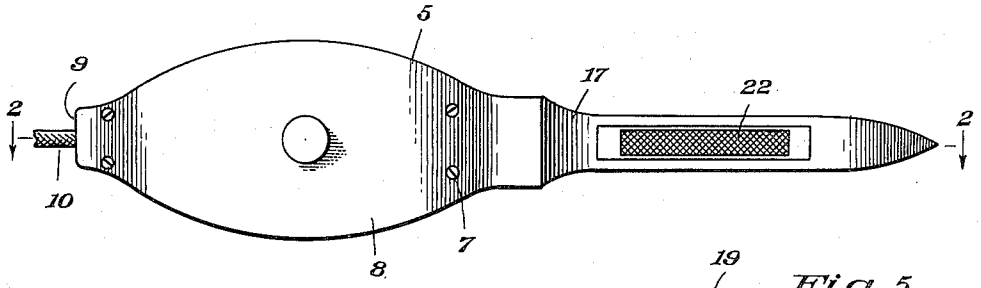


Fig. 5.

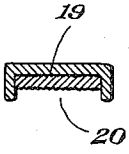


Fig. 3.

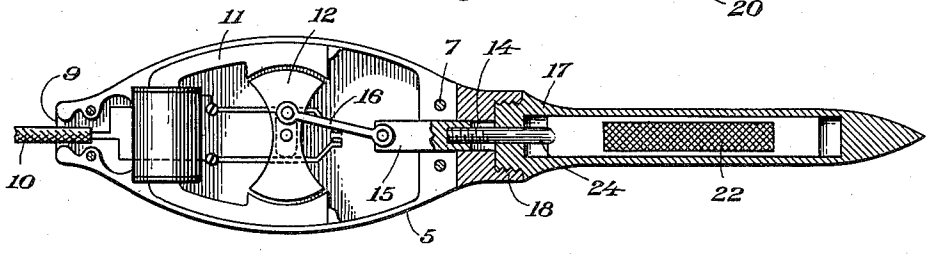


Fig. 2.

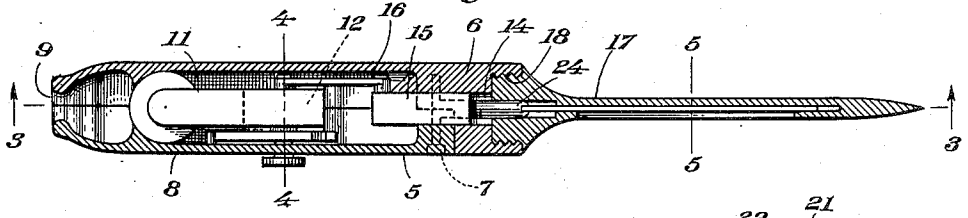
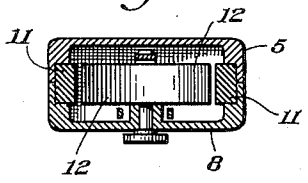


Fig. 4.



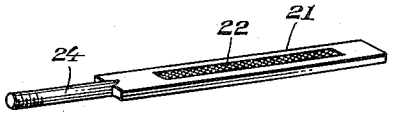


Fig. 6.

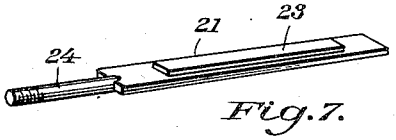


Fig. 7.

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UNITED STATES PATENT OFFICE

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ELECTRIC FINGERNAIL FILE

Val Ariza, Tuscarora, Nev.

Application August 26, 1940, Serial No. 354,263

2 Claims. (Cl. 132—75.8)

My invention relates to electrically operated fingernail files and polishers and has as one of the principal objects thereof the provision of a device of the above described character so constructed and arranged whereby the file and polishing elements are quickly attachable to and detachable from means operable for reciprocating said elements.

Another object of my invention is to provide a device of the above described character equipped with means for supporting the elements during their reciprocation and which serves as a rest or support for the finger while the nail is being operated on by one of said elements.

An important object of my invention is to provide a device of the character described which is simple in construction, durable in use, efficient in operation and economical in manufacture.

Other objects and advantages will be apparent from the following description, appended claims and annexed drawing.

Referring to the drawing wherein like reference characters designate like parts throughout the several views:

Figure 1 is a top plan view of my invention.

Figure 2 is a sectional view taken on a line 2—2 of Figure 1.

Figure 3 is a sectional view taken on a line 3—3 of Figure 2.

Figure 4 is a sectional view taken on a line 4—4 of Figure 2.

Figure 5 is a detail sectional view taken on a line 5—5 of Figure 2.

Figure 6 is a perspective view of the file element.

Figure 7 is a perspective view of the polishing element.

In practising my invention, as illustrated in the drawing, I provide a hollow casing 5 constituting a handle and which is formed with a body section 6 having attached thereto, by means of screws 7, a cover 8. The rear end of the casing is provided with an opening 9 through which extends one end of an electrical conduit 10 connected to an electric motor 11 mounted in said casing. The motor 11 is of the vibratory type and is provided with the usual rotating member 12 pivotally mounted within said casing. The opposite end of the conduit 10 is connected to a source of electrical energy (not shown) whereby to operate said motor. Inasmuch as the motor 11 forms no part of the present invention per se, a more detailed description of the same is not believed necessary.

The front end portion of the body section 6 is formed with a square shaped opening 14 in which is mounted a similar shaped elongated bar 15 for reciprocation therein. The rear end of the bar 15 has pivotally connected thereto the front end of a link 16. The rear end of said link is pivotally and eccentrically connected to the rotating member 12 of the motor 11 thereby imparting reciprocating movement to the bar 15 upon operation of the motor.

The front end of the body section 6 has detachably threaded therein the rear end of a guard or support 17 as indicated at 18. The guard is fashioned with an elongated interior guideway 19 and on one side with a slot 20 communicating with said guideway. Slidably mounted within the guideway 19 is an elongated and relatively narrow member 21, for instance, a nail file element 22 or a nail polishing element 23. The rear end of the member 21 has fixed thereto the front end of a shaft 24 which extends through a bearing formed in the rear end of the guard 17. The rear end of the shaft 24 is threaded into the front end of the bar 15 as clearly illustrated in Figure 3 of the drawing.

In use, the nail file element 21 is disposed within the support 17 and connected to the bar 15 whereupon the finger tip of the user is disposed into engagement with the guard with the fingernail extending through the slot 20 and into engagement with the element 22. Operation of the motor causes the fingernail to be filed, it being understood that the finger is moved relative to the support 17 to insure proper filing of the nail. After the nail has been filed, the support 17 is detached from the casing and the polishing element 23 substituted within the support for the file element and the support and polishing element are then connected to the casing and bar 15 respectively. When the polishing element is thus connected, the nail of the finger is disposed within the slot against the polishing element and the motor operated to effect polishing of the nail.

It is obvious that the invention is not confined to the herein described use therefor as it may be utilized for any purpose to which it is adaptable. It is therefore to be understood that the invention is not limited to the specific construction as illustrated and described, as the same is only illustrative of the principles of operation, which are capable of extended application in advance forms, and that the invention comprehends all construction within the scope of the appended claims.

What I claim is:

1. A device of the character described, comprising, a hollow casing, a finger support detachably carried by said casing and formed with a guideway and a slot communicating with said guideway, a fingernail operating element slidably mounted in said guideway and accessible for engagement with a fingernail through said slot, and means carried within said casing and connected to said element for reciprocating the latter within said support.

2. A device of the character described, comprising, a finger support detachably carried by said casing and formed with a guideway and a slot communicating with said guideway, a fingernail operating element slidably mounted in said guideway and accessible for engagement with a fingernail through said slot, a bar slidably mounted in said casing and detachably connected to said element, and means carried within said casing and connected to said bar for reciprocating the latter and said element within said support.

VAL ARIZA.