C. F. ROSSETTER.

MANICURING DEVICE.

APPLICATION FILED FEB. 27, 1913.

1,115,337.

Patented Oct. 27, 1914.

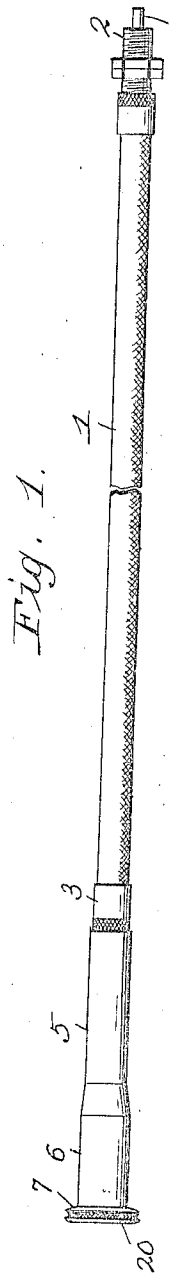


Fig. 1.

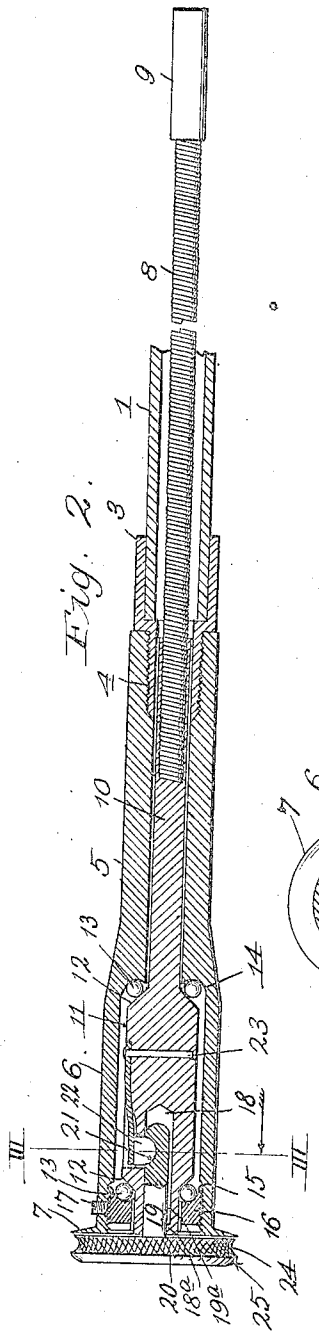


Fig. 2.

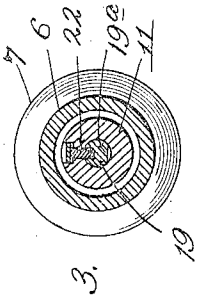


Fig. 3.

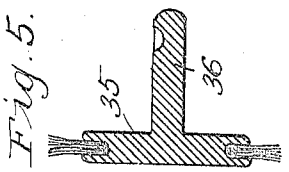


Fig. 5.

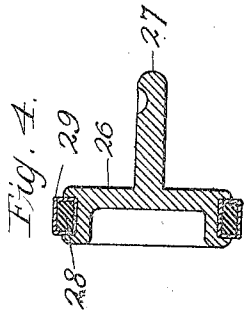


Fig. 4.

WITNESSES:

R. B. Hamilton

L. J. Fischer

INVENTOR:

Charles F. Rossetter,

BY

F. G. Fischer,

ATTORNEY

UNITED STATES PATENT OFFICE.

CHARLES F. ROSSETTER, OF KANSAS CITY, KANSAS, ASSIGNOR OF ONE-HALF TO LA FORCE DAY, OF KANSAS CITY, KANSAS.

MANICURING DEVICE.

1,115,337. Specification of Letters Patent. Patented Oct. 27, 1914.

Application filed February 27, 1913. Serial No. 751,041.

To all whom it may concern:

Be it known that I, CHARLES F. ROSSETTER, a citizen of the United States, residing at Kansas City, in the county of Wyandotte and State of Kansas, have invented certain new and useful Improvements in Manicuring Devices, of which the following is a specification.

My invention relates to manicuring devices, and one object is to provide a simple device of this character whereby the finger nails can be quickly trimmed, cleaned, and polished.

The device is adapted to be attached to and operated by an electric or other motor, and in order that the invention may be fully understood, reference will now be made to the accompanying drawing, in which:

Figure 1 is a broken side elevation of my device. Fig. 2 is an enlarged broken central section of the device. Fig. 3 is a cross section on line III—III of Fig. 2. Fig. 4 is a central section of a polishing attachment employed in carrying out the invention. Fig. 5 is a central section of an attachment for cleaning the nails.

In carrying out the invention, I employ a flexible tube 1, provided at its rear end with a screw-threaded fitting 2, for attachment to an electric or other rotary motor. The forward end of tube 1 is encompassed by a sleeve 3, having a reduced forward threaded end 4, adapted to be screwed into the internally-threaded rear terminal of a tubular handle 5, slightly enlarged at its forward portion 6 to form a convenient hand hold for the operator. The forward end of handle 5, has a circular guide 7 tapering to an edge at its periphery, so that it can be readily inserted beneath the nail to guide the nail trimming tool hereinafter described.

8 designates a flexible shaft extending through tube 1 and inclosed at its rear end with a fixedly-mounted sleeve 9, which may be attached to the shaft of an electric or other rotary motor. The forward end of shaft 8 is fixedly-secured in the rear portion of a shaft 10, having an enlarged portion 11, arranged within the enlarged forward portion 6 of handle 5. The enlarged portion 11 of shaft 10 is provided at its ends with peripheral ball-races 12, contacting two annular rows of balls 13 held in place against the ball-races 12 by a ball-race 14 in handle 5, and a ball-race 15 in a cup 16 screwed into the internally-threaded forward end of handle 5. Cup 16 may be adjusted longitudinally of handle 5 to take up any lost motion or wear of the balls 13 and the ball-races. Cup 16 is locked at any point of its adjustment by a set-screw 17 threaded into the handle 5 and bearing at its inner end against the periphery of said cup.

Shaft 10 is provided at its forward portion with an axial counter bore 18 to receive the stub-shaft 19 of a circular file or other abrasive member 20. Stub-shaft 19 is provided near its rear end with a recess 21 to receive the forward end of a resilient detent 22, secured at its rear end to shaft 10 by a pin 23.

In order that the recess 21 of stub-shaft 19 may be brought into register with the forward end of detent 22 when stub-shaft 19 is inserted into bore 18, I flatten one side of said stub-shaft as indicated at 19^a and also flatten the corresponding side of the bore as indicated at 18^a.

The rotary member 20 has a peripheral concave abrasive surface 24, communicating with a peripheral guard 25 at the front side of member 20. Guard 25 prevents cutting of the hand should the member 20 accidentally come in contact therewith.

26 designates a circular polishing member provided with a stub-shaft 27, of the same shape and size as stub-shaft 19, so that it may be inserted in bore 18 and engage the detent 22, when the rotary file member 20 is removed. Member 26 is provided with a peripheral ring 28, made of rubber or other similar material and covered with a piece of chamois, or other suitable polishing material 29.

35 designates a circular brush member provided with a stub-shaft 36 of the same shape and size as the stub-shaft 19, to fit into the counter bore 18 and engage the detent 22.

When it is desired to trim the nails, the device is attached to the motor (not shown) and the enlarged portion of handle 5 is grasped with one hand, while the circular guide 7 is inserted beneath one of the nails of the other hand to bring the abrasive periphery 24 or the rotary member 20 into engagement with the exposed edge of the

nail, which latter is then trimmed to the desired shape by passing the member 20 back and forth around the exposed edge of the nail. The file member 20 is then removed and the brush member 35 substituted therefor to thoroughly cleanse the nails, after which the nails may be polished by substituting the rotary polishing member 26 for the rotary brush member 35.

While I have shown and described the preferred form of my invention, I of course, reserve the right to make such changes as properly fall within the spirit and scope of the appended claims.

Having thus described my invention what I claim and desire to secure by Letters Patent, is:

1. A device of the character described, consisting of a flexible shaft adapted to be coupled at one end to a motor, a rotary abrasive tool mounted at the opposite end of said shaft, a guide in close proximity to the side of the rotary abrasive tool, said guide having its side remote from the rotary tool beveled and intersecting the edge adjacent said abrasive tool forming an edge at the periphery of the guide, a handle integral with said guide, and a flexible tube inclosing the shaft and carrying said handle at one end.

2. In a device of the character described, a rotary abrasive tool, a handle carrying said tool, and an annular guide integral with said handle and having a peripheral edge in close proximity to and extending slightly beyond the periphery of said abrasive tool, said edge being formed by beveling the side of the guide remote from the rotary tool to intersect the edge of the opposite side of said guide.

In testimony whereof I affix my signature, in the presence of two witnesses.

CHARLES F. ROSSETTER.

Witnesses:

F. G. FISCHER,

L. J. FISCHER.