No. 853,832. PATENTED MAY 14, 1907.

M. M. RYAN.

NAIL TRIMMING DEVICE.

APPLICATION FILED MAR. 12, 1907.

Fig. 1.

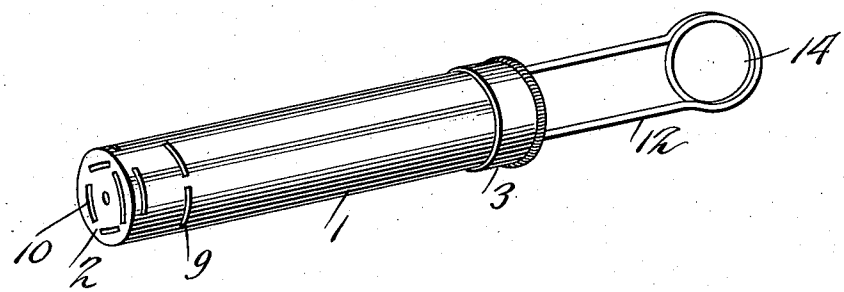


Fig. 2.

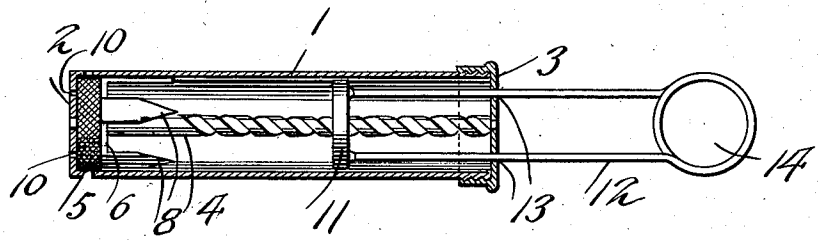


Fig. 4.

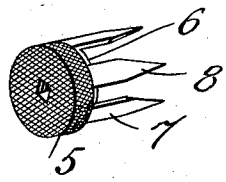
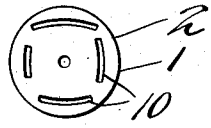


Fig. 3.



Inventor

Martin M. Ryan

Witnesses

F. C. Ackmann Jr.

Wm. Bagger

By Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

MARTIN M. RYAN, OF OBERLIN, OHIO.

NAIL-TRIMMING DEVICE.

No. 853,832. Specification of Letters Patent. Patented May 14, 1907.

Application filed March 12, 1907. Serial No. 362,010.

To all whom it may concern:

Be it known that I, MARTIN M. RYAN, a citizen of the United States, residing at Oberlin, in the county of Lorain and State of Ohio, have invented new and useful Improvements in Nail Trimming Devices, of which the following is a specification.

This invention relates to devices for trimming finger nails and it has for its object to present a device of this class by means of which the nails may be neatly and swiftly trimmed without danger of injuring the tender skin adjacent to the nails.

A further object of the invention is to provide a nail trimming tool of a rotary character including cutting members whereby the nails may be pared and an abrading disk by means of which polish may be imparted to the trimmed edges.

Further objects of the invention are to simplify and improve the construction and operation of this class of devices.

With these and other ends in view which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and assemblage of parts which will be hereinafter fully described and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of the invention; it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the invention may be resorted to, when desired.

In the drawings; Figure 1 is a perspective view of a nail trimming device constructed in accordance with the invention. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is an end view. Fig. 4 is a perspective detail view showing the cutter and the abrading disk detached.

Corresponding parts in the several figures are denoted by like characters of reference.

The body of the improved device consists of a cylindrical casing 1 preferably provided with a permanent closure at one end as shown at 2 and having at the opposite end a detachable cap or cover 3 which may be in the nature of a screw-cap so as to be readily detached and applied. The closure 2 and the cap 3 afford bearings for a spirally threaded shaft 4 which is supported for rotation in its bearings and which carries, adjacent to the closure 2 an abrading disk 5, which may consist of a circular file or of a small emery wheel, securely fixed upon the shaft so as to rotate therewith. Upon the shaft 4, adjacent to the abrading disk is secured a metallic disk 6 provided at its edge with a plurality of cutters 7 preferably arcutae in cross-section so as to fit against the inner walls of the casing 1; said cutters being provided with sharp, inclined edges 8. The side walls of the casing 1 and the closure 2 of the latter are provided with arcuate slots 9 and 10 through which the ends of the finger nails may be inserted and held in the path of the cutters 7 and the abrading disk 5 when said members are rotated so that the nails will be trimmed thereby, as will be readily understood.

Rotary motion is imparted to the spirally threaded shaft 4 and the parts carried thereby by means of a reciprocatory disk or nut 11 engaging the threaded portion of said shaft and provided with a yoke or handle 12, the side members of which extend through apertures 13 in the cap 3; said yoke being provided at its outer end with an eye 14 whereby it may be manipulated by the thumb of one hand to impart reciprocatory motion to the nut 11 which will thus serve to rotate the shaft 4 within the casing, which is meanwhile being held by or between the fingers of one hand of the operator, while the finger nails of the other hand are presented to the trimming tools through the apertures or slots in the casing.

From the foregoing description taken in connection with the drawings hereunto annexed, the operation and advantages of this invention will be readily understood. The device is very simple in construction, neat in appearance and efficient in operation, and it may be readily manufactured at a moderate expense. By the use of this device, the nails may be trimmed or pared, and the edges polished absolutely without danger of injuring the skin of the finger tips.

Having fully described the invention, what I claim is:

1. In a device of the class described, a slotted cylindrical casing, a shaft supported for rotation therein, and cutters supported upon said shaft adjacent to the slotted walls of the casing.

2. In a device of the class described, a cylindrical casing having slots in the side walls and ends thereof, a shaft supported for

rotation in the casing and devices mounted upon said shaft for trimming the ends of finger nails inserted through the slots or apertures.

3. In a device of the class described, a cylindrical casing having slots or apertures, a detachable cap at one end of the casing, a shaft supported for rotation in said cap and in the opposite closed end of the cylinder or casing, and nail trimming devices carried by said shaft adjacent to the slots and the casing.

4. In a device of the class described, a casing, a shaft extending therethrough, nail trimming devices upon said shaft, and means for rotating the latter; said casing being provided with slots for the presentation of the ends of nails in the path of the trimming devices.

5. In a device of the class described, a slotted casing having a detached cap, a spirally threaded shaft supported for rotation in the cap and in the opposite closed end of the casing, nail trimming devices carried by said shaft adjacent to the slots in the casing, a nut engaging the spirally threaded shaft, and means for reciprocating the nut to rotate the shaft.

6. In a device of the class described, a casing having a detachable cap, a spirally threaded shaft supported for rotation in the cap and in the opposite closed end of the casing, nail trimming devices carried by the shaft adjacent to the slots in the casing, a nut engaging the spirally threaded shaft, and a yoke connected with the nut, extending through the cap and having a terminal eye.

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

MARTIN M. RYAN.

Witnesses:

KATHRYNE RYAN,

LOUIS E. BURGNER.