May 27, 1941. P. J. CUMMINGS 2,243,328

NAIL FILE

Filed Sept. 8, 1938

Fig. 1.

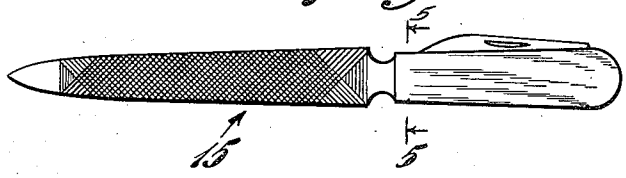


Fig. 2.

Fig. 3.

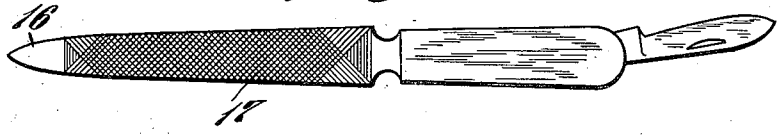


Fig. 5.

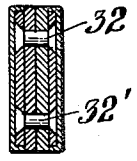


Fig. 4.

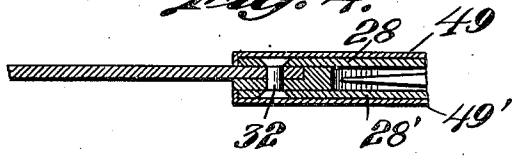


Fig. 6.

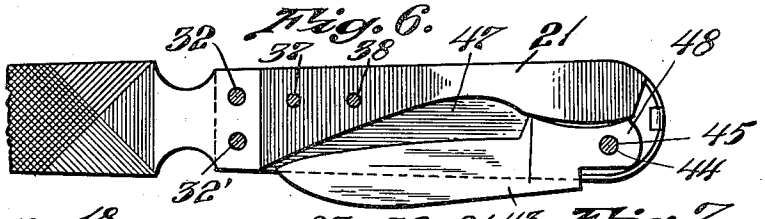


Fig. 8.

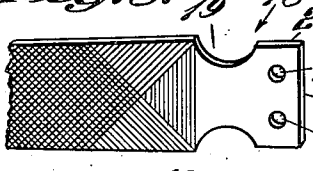


Fig. 7.

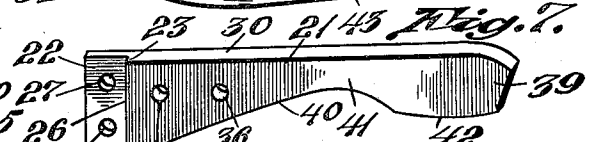
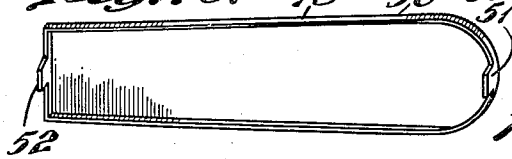


Fig. 9.

Fig. 10.



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Patented May 27, 1941 2,243,328

UNITED STATES PATENT OFFICE

2,243,328

NAIL FILE

Patrick J. Cummings, Attleboro, Mass.

Application September 8, 1938, Serial No. 228,939

1 Claim. (Cl. 132—75.6)

This invention relates to a nail file and has for one of its objects to provide a simple and yet secure and compact arrangement for securing a handle thereon.

Another object of the invention is the provision of a compact and secure arrangement for positioning the handle on the nail file in such a manner that it may have additional uses.

With these and other objects in view, the invention consists of certain novel features of construction, as will be more fully described, and particularly pointed out in the appended claim.

In the accompanying drawing:

Fig. 1 is a top plan view of the combination nail file and knife;

Fig. 2 is an edge view thereof;

Fig. 3 is a view similar to Fig. 1 but showing the knife blade moved to open position;

Fig. 4 is a sectional view on substantially line 4—4 of Fig. 2 showing only the joint connection of the nail file with its handle;

Fig. 5 is a section on line 5—5 of Fig. 1;

Fig. 6 is an elevation with one side of the casing removed and a fragment of the nail file;

Fig. 7 is a perspective view of the combination back and spring member of the handle;

Fig. 8 is a perspective view of the secured end of the nail file with the remainder broken away;

Fig. 9 is a perspective view of one of the casing members of the handle and knife portion;

Fig. 10 is a perspective view of the cover shell.

In the use of implements such as a nail file, it is convenient that a handle be positioned on the file for manipulation thereof, and at times it is exceedingly desirable in the use of a nail file to use some cutting implement such as a knife; and in order that such a knife may be convenient for use, I have provided a knife blade in the handle of the nail file, and I have formed the parts which enable the use of this knife and nail file so that the parts forming the handle and knife casing cooperate with the secured end of the nail file to hold it firmly in position and yet in an exceedingly compact arrangement, this being accomplished by the notching of the back and spring portion of the knife forming the handle of the file to provide a space for the reception of the file; and the following is a more detailed description of the present embodiment of this invention, illustrating the preferred means by which these advantageous results may be accomplished.

With reference to the drawing, 15 designates the nail file portion of this implement which has a pointed free end 16, an abrasive surface 17, and a secured end portion 18 which is arcuately recessed on opposite sides as at 19 and provided with openings 20, 20' adjacent its end.

The handle for this file consists of a back portion 21 shown in perspective in Fig. 7 which is notched or cut out as at 22 to a depth 23 on one side to equal the thickness 24 of the file end 18 so that this file end may rest within this notch with its end 25 snugly against the abutment 26 of the notch to locate the file in position. Openings 27, 27' register respectively with the openings 20 and 20' in the file end. On either side of this back 21 there are casing members 28 which have one side edge 29 aligning and in substantial registry with the edge 30 of the back 21. These casing members 28, 28' are also provided with openings 31, 31' which register respectively with the openings 20, 27 and 20', 27' and receive rivets 32, 32' through these openings to secure the casing members 28, 28', the back 21 and the file securely in position. Thes casing members 28, 28' are also provided with openings 33, 34 which register respectively with openings 35 and 36 in the back portion 21 and rivets 37, 38 pass through these openings to further hold and support the back member 21 in position between the casing members by holding it rigid at one end while leaving its opposite end 39 free.

This backing member 21 while its edge 30 aligns with the edge of the casing as at 29, is cut away as at 40 to provide a thinner portion of stock 41 intermediate its ends and a cam-like surface 42 adjacent its end. This cut away portion causes the back to be more resilient and at the same time forms a recess 47 between the casing parts 28, 28' for the reception of the knife blade 43 which is pivoted by the pin 44 extending through the opening 45 in the knife blade and the openings 46, in the casing members 28, 28'. This knife blade has its major portion received in the recess 47 provided by the cut away portion 40 of the back while its end has a cam-like surface 48 to engage the cam 42 and cause a flexing of this back portion 21 when the knife blade is swung about its pivot 44 from the position shown in Figs. 1 or 6 to the position shown in Fig. 3, this flexing occurring similar to that usually occurring in jack-knife structure.

The working parts of this device are enveloped by shell cover members 49 and 49' which are formed of sheet stock with a flange 50 to extend partly over the edges of the casing and are provided with fingers 51 and 52 at their opposite ends for holding the shell in position on the casing.

The foregoing description is directed solely towards the construction illustrated, but I desire it to be understood that I reserve the privilege of resorting to all the mechanical changes to which the device is susceptible, the invention being defined and limited only by the terms of the appended claim.

I claim:

In a device of the character described, a pair of spaced casing members, a back member positioned between said members, and fixedly riveted with relation thereto adjacent one end thereof, said back member having the extreme end portion thereof adjacent its fixed end reduced in thickness an amount to provide a space between the casing and said extreme end portion, said extreme end portion being substantially the width of the adjacent portions of the casing members, a file member having an extreme end portion located in said space and of a thickness to substantially fill said space and of a width to be substantially flush with the adjacent outer edge surfaces of said back and casing members, and rivets extending through said file member, back, and casing members to hold these parts in fixed relation, and shell cover members enveloping the outer and edge surfaces of said casing members.

PATRICK J. CUMMINGS.