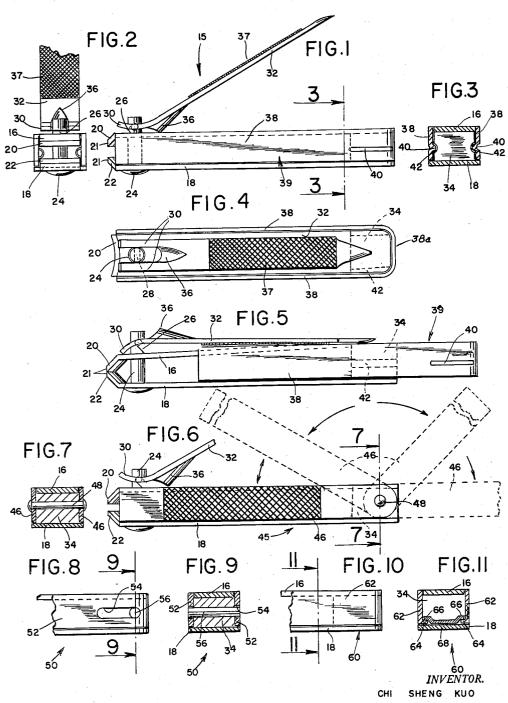
NAIL CLIPPERS

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2,970,376 NAIL CLIPPERS

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This invention relates to nail clippers and, more par- 15 ticularly, to a nail clipper having means for storing cut off nails in a tidy and convenient manner.

Ordinarily, nail clippers serve the purpose of removing the portions of the nail, but fail to retain such removed portions for convenient disposal after completion of the clipping operation. This is not only untidy, inconvenient, and the like, but also makes the clipping operation more difficult. It is therefore an object of the present invention to provide a nail clipper having self contained retaining means for storing the cut off nail portions for disposal 25 after completion.

Another object of the present invention is to provide a nail clipper that has a wide variety of nail file and trimming elements which will provide for a professional nail trimming operation.

Still an additional object of the present invention is to provide a combined nail clipper, file, and cut off nail storage device which is extremely simple in construction, efficient in operation, and which will overcome all of the aforementioned difficulties.

All of the foregoing and still further objects and advantages of this invention will become apparent from a study of the following specification, taken in connection with the accompanying drawing, wherein:

Figure 1 is a side elevational view of a nail clipper 40 made in accordance with one form of the present in-

Figure 2 is a front end view of the device shown in Figure 1;

Figure 3 is a sectional view taken on the line 3-3 of 45 Figure 1:

Figure 4 is a top plan view of the device shown in Figure 1;

Figure 5 is a view similar to Figure 1, with the parts in

an adjusted position; Figure 6 is a view similar to Figure 1, with a slightly modified form of construction;

Figure 7 is a sectional view taken on the line 7-7 of

Figure 8 is a fragmentary side elevational view of still 55 another form of the present invention;

Figure 9 is a sectional view taken on the line 9-9 of Figure 8:

Figure 10 is a view similar to Figure 8 of still another embodiment of the present invention; and

Figure 11 is a sectional view taken on the line 11-11

of Figure 10.

Referring now to the drawing in detail, and more particularly to Figures 1 to 5 thereof, a nail clipper device 15 made in accordance with one form of the present invention 65 is shown to include a pair of upper and lower normally parallel blade members 16, 18 of springy metal of equal length and width, the blades being provided with deformed cutting edges 20, 22 at their forward ends extending toward each other, the opposite ends of the upper and lower 70 blade members being connected by means of a mounting block 34. It is to be noted that the extreme outermost

surfaces 21 of the cutting edges 20, 22 are smooth and lie substantially in an imaginary cylinder transverse to the blade members.

A pin 24 is carried by the lower blade member 18 and extends freely through the forward end of the upper blade member 16; the upper end of the pin is provided with an oblique slot 26 within which a transversely extending bearing pin 28 extends. This bearing pin extends between a pair of bifurcated arms 30 of an operating lever 32 10 having a fulcrum 36. Thus, with the parts in the position shown in Figure 1, a downward movement of the lever 32 is operative to have the fulcrum 36 force the upper blade member 16 toward the lower blade member 18, thus producing a cutting action between the cutting edges 20,

The mounting block 34 is provided with a pair of longitudinally extending grooves 42 which slidably receive a pair of inwardly directed and longitudinally extending detents or ridges 40 of the sides or legs of a U-shaped closure member 39. The closure member includes the two parallel legs 38 and the connecting yoke portion 38a, the distance between the legs being equal to the width of the members 16, 18. Thus, the closure member is slidable longitudinally of the blade members 16, 18 between the normally closed position shown in Figure 1 and the open position shown in Figure 5. In the closed position, the legs 38 close the sides of the device between the blade members and the block 34, and the closure member serves to store the nail portions removed by the cutting edges 20, 22 so that upon sliding this member to the open position such nail portions may be conveniently disposed of. One or both surfaces of the sides 38 of the closure member may be provided with file surfaces, not shown, to facilitate the use of the device as a manicuring aid. One or both surfaces of the lever 32 may likewise have file surfaces, as shown at 37. When in the normally closed position, Figure 1, the entire housing including the closure member further provides a comfortable handle which facilitates the use of the clipping mechanism. This is true of all of the forms of the device illustrated. When not in use, the operating lever 32 is rotated to the storage position (of the blades) shown in Figure 5, and the closure member 39 is slid home to the left, to its position shown in Figure 1. In this condition the device is sufficiently compact to be conveniently carried in the pocket or in a purse. In the locked position of the blades the cutting edges are in mutual contact so that the surfaces 21 provide a continuous smooth cylindrical surface. Hence there is no danger of one's being cut by a sharp cutting edge.

With reference now to Figures 6 and 7 of the drawing, a slightly modified form of construction 45 is shown wherein the operating parts of the nail clipper are substantially identical to those above described. In this arrangement, however, the sides 46 of the closure member are preferably rigid upon a transversely extending pin 48 that is pivotally carried by the mounting block 34. Since this closure member includes only the sides 46, it is freely movable between the open and closed positions relative to the upper and lower blade members and to the operating lever 32. To use the member 46 to file the nails, with the member 46 swung into an outward position as indicated in broken lines, the main body serves as a convenient handle.

In Figures 8 and 9, still another embodiment 50 is shown to include a U-shaped closure member having sides 52 provided with longitudinal slots 54 which slidably receive the transverse pivot pin 56 therethrough. In this arrangement the closure member is movable longitudinally, as is obvious.

In the arrangement shown in Figures 10 and 11, the U-shaped closure member is provided with a pair of spaced sides 62 having inwardly directed flange portions

64 adjacent one edge thereof which are slidably received beneath indents formed by the laterally spaced webs 66 of a spring clip member 68 mounted upon the lower blade member 13. Herein the sides 62 of the U-shaped closure member are movable longitudinally back and forth along the length of the clip member 68 in order to open or close the storage compartment wherein nail parings are stored.

While this invention has been described with particular reference to the construction shown in the drawing, it is 10 to be understood that such is not to be construed as imparting limitations upon the invention which is best defined in the claim appended hereto.

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

A nail clipper device comprising, in combination, a pair of normally parallel upper and lower blade members of equal width, a block integrally connecting one end of said blade members together, the opposite ends of the blade members being deformed toward each other and defining 20 cutting edges, a mounting pin carried by one of said blade members and extending freely through the other one of said blade members adjacent to said opposite end thereof to accommodate relative movement of said opposite ends of said blade members toward and away from each other,

a lever pivotally connected at one end to said pin adjacent to the outer side of the other one of said blade members for effecting movement of said cutting edges of said blade members toward each other, a U-shaped closure member normally closing the sides of the device between said blade members consisting of two parallel legs and a yoke portion connecting the legs, the legs having a width equal to the distance between the blade members and a length equal substantially to the length of the blade members, said block having longitudinal grooves in the sides thereof, said legs having complementary longitudinal ridges on the opposed inner surfaces thereof, said closure member being slidably mounted on the device with said ridges registering in said grooves with said yoke portion normally engaging said block, said closure member together with said blade members and said block normally defining a storage compartment for storing removed nail portions therewithin.

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