

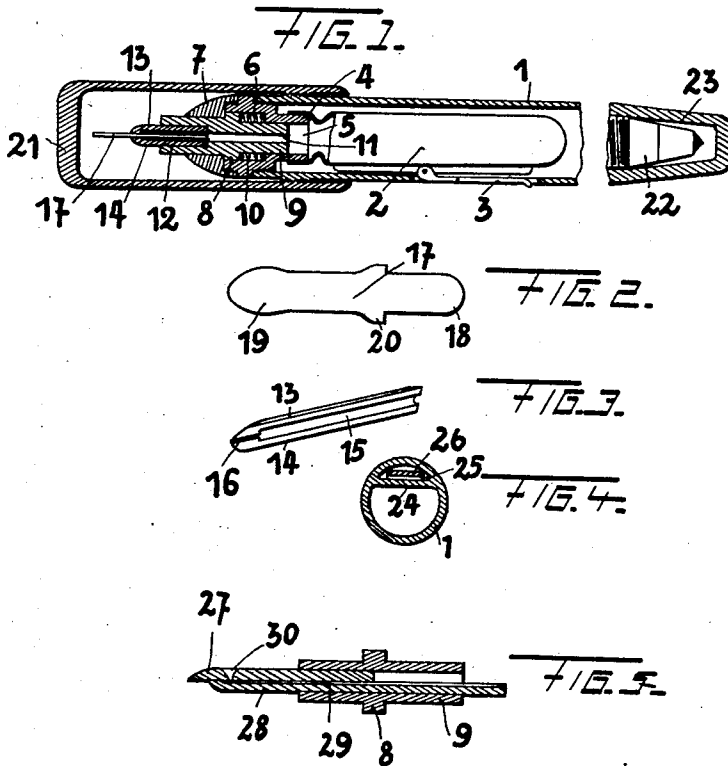
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MANICURE APPLIANCE

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MANICURE APPLIANCE

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Manicure appliances are known in which a liquid preparation stored in a hollow barrel is fed to the tool joined to a piston mounted to slide in the hollow barrel, and thus to the finger-nail, by pressing back the piston. The movement of the piston is at the same time not restricted in the upward direction, so that if the piston is removed from its seat, the oil flows out unhindered, and in this way the liquid reservoir can be completely emptied in a short time.

In addition, manicure appliances have been made known in which the liquid is intended to be fed to the nail through a capillary opening. The capillary opening is in this case closed by a conical valve the operative devices of which are outside the actual apparatus, so that the handling of the tool is very complicated.

The present invention eliminates this disadvantage by placing all the essential parts in the interior of the apparatus and by having the liquid preparation fed through the longitudinal bore of an inserted member in the form of a piston to the finger-nail that is to be treated, the said preparation being fed automatically and in small quantities.

In the accompanying drawing the object of the invention is shown in one example of construction.

Fig. 1 shows a longitudinal section of the tool. Fig. 2 shows the inserted "nib" serving for the pushing back of the cuticles.

Fig. 3 shows one of the two hollowed-out nib manicure sticks.

Fig. 4 shows a further formation of the container.

Fig. 5 shows a further formation of the insertion piece, for pushing back the cuticles.

In accordance with the drawing there is a rubber bladder 2 in the tube 1, which bladder 2 sucks in oil when the two-armed lever 3 is swung out, after the fashion of a fountain-pen reservoir. In the tube 1 there is also an inserted slideway member 4, screwed-in, fitted with two borings 5 and 6 of different diameters. Over the boring 5 is placed the said rubber bladder 2; at the front is screwed-on a cap 7, also fitted with a longitudinal boring, which cap encloses a collar 8 of a piston 9 which it presses against the cap 7 by means of a spiral spring 10 mounted in the boring 6. The piston 9 is also provided with a longitudinal boring 11 in the direction of the interior of the instrument and a longitudinal boring 12 in the other direction. In the latter boring there are fitted two half sticks 13 and 14 which are provided with grooves 15 and 16 for feeding the oil.

Between the two half sticks is mounted the actual manicure implement 17, which is advantageously of the shape shown in Fig. 2, in which case there is the part 18 which is pushed into the instrument and the part 19 which is advantageously curved for pushing back the cuticle and if desired slit in the style of a pen-nib. The side projections 20 are intended to ensure that the "nib" lies against the piston 9 when in use. When the instrument is being used, light pressure on the part of the finger-nail that is to be treated causes the piston 9 to be pressed back, after the spring tension has been overcome, in the style of a pump piston. In this way a certain quantity of oil reaches the boring 12 and thus passes through the grooves 15 and 16 to the pen tip 19, and so to the finger-nail. The flow of oil is effected as often as the instrument is pressed on to the nail. When not in use the instrument is closed by a cap 21, pushed or screwed over it. At the other end of the instrument there can advantageously be a bleaching pencil, which is screwed out after the fashion of a propelling pencil, or an additional manicure implement 22, which can also be enclosed by a cap 23.

It should in addition be mentioned that the rubber bladder 2 can if desired be omitted entirely; in this case the interior of the barrel itself would act as the reservoir for the liquid, the barrel then having to be for preference transparent at a suitable spot for the purpose of seeing how much liquid the reservoir holds from time to time. The instrument can be divided into two parts by a longitudinal partition 24—as shown in Fig. 4. In the smaller longitudinal container 25 a nail file 26 could then be kept. In accordance with Fig. 5 the nib for pushing back the cuticle can also be formed as follows: instead of the holder sticks 13 and 14, the inserted piece 27 itself could be used for pushing back the cuticle. The other stick 28 then serves as support for the piece 27 and is fitted with a channel 29 for the oil feed. In order to avoid the formation of a vacuum in the container, the piece 27 has a perforation 30. Through this perforation and the adjacent channel 29 air can pass unhindered into the container when the liquid in the reservoir is gradually used up.

I claim:—

1. A manicure appliance comprising a barrel member adapted to contain a liquid preparation for treating the nails, a slideway member closing one end of said barrel member, a cap having a central bore, screwed onto said slideway member, a piston adapted to slide in said slideway member

and in said cap, an abutment carried by said piston adapted to limit the movement of said piston between the slideway member and the cap thereof, spring means tending to push the abutment on said piston against the cap, a tool at the outer end of the piston for treating the nails, pressure on said tool causing the piston to slide into the slideway member and pump some of the liquid contained in the barrel member through a longitudinal bore in said piston to the tool.

2. A manicure appliance as claimed in claim 1, comprising a slideway member having a part of its bore enlarged, a piston sliding in said slideway member, and a spring mounted in the enlarged bore of the slideway member tending

to push said piston out of the slideway member.

3. A manicure appliance as claimed in claim 1, comprising a piston having an enlarged bore at its outer end, and two gripping members adapted to be pushed into said enlarged bore and grip between them the tool for treating the nails, said gripping members having channels on their inner faces for the passage of the liquid from the longitudinal bore in the piston to the tool.

4. A manicure appliance as claimed in claim 1, comprising a bladder mounted inside the barrel member and connected to the slideway member, said bladder being adapted to hold the liquid preparation for treating the nails.

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