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(54) **Cutting device with two cutting blades having plastic applications on the handles**

Schneidgerät mit zwei Schneideklingen mit Plastikverkleidungen an den Griffen

Dispositif de coupe comprenant deux lames de coupe et des recouvrements en plastique sur les poignées

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(56) References cited:
**DE-A- 3 924 825 US-A- 5 502 897
US-A- 5 551 157**

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Description

[0001] The invention refers to a nail and cuticle cutter of the two-blade type and more in particular still of the type in which two blade elements are pivoted together in an intermediate position about an axis so that they are free to swing about said axis between a divaricated or open position and a closed position.

[0002] Hereinafter, reference will be made to devices of the aforesaid type used for nail and cuticle care.

[0003] The devices with blade elements that are generally used for nail and cuticle care, such as scissors, clippers and the like, are generally made of metal. A drawback with these devices is that they are cold to the touch for the person handling them and, in addition, they can easily slip out of his/her hand during use. A solution that has been sought to overcome this problem has been to make the handle parts with knurled portions. However, even though this increases friction with the user's hand, it does not improve the feel.

[0004] Recently, cutting devices have been made with the handles coated with a layer of plastic material. These implements provide a better feel as compared to the bare metal, but the plastic coating also covers the inner side of the handles, where the end of a spring-action divaricating lever engages, and this raises problems for the sliding of this end and hence worsens the functionality of the device.

[0005] US 5 551 157 discloses a tool handle assembly for a garden tool, including a first and a second handgrip, where only a handgrip is provided with an insert on its outward surface, while no insert is either provided or in any way suggested on the outward surface of the other handgrip.

[0006] US 5 502 897 discloses an ergonomic scissor comprising at least a blade assembly (which is — or can be — detachable and interchangeable) and a pair of jaws provided with soft pads.

[0007] The aim of the invention is to make nail and cuticle cutters with pivoted blades, the devices being provided with anti-slip characteristics and being pleasant to the touch, without, however, adversely affecting the functionality of the divaricating springs thereof. A further aim is to obtain nail and cuticle cutters that offer a pleasant appearance and may be made in a variety of shapes and colours. Another aim is to obtain nail and cuticle cutters at a contained cost.

[0008] The aims referred to above have been achieved by means of a device with pivoted blades as specified in Claim 1.

[0009] Further new and useful characteristics are presented in the subsequent claims.

[0010] In other words, the new device comprises, on the outer face, or back, of the handle parts of the blade elements, applied facings or inserts made of plastic material. These facings or inserts are preferably applied in seats previously made in the back of the handles and/or are fixed to the respective handles by gluing, and/or

by means of stake-type parts of the inserts, which are engaged and riveted inside holes in the handle, and/or by various means of fixing devices, such as stakes, rivets, dovetailing, etc. The plastic material may be rigid or soft.

[0011] The scissors or clippers thus obtained are pleasant to handle, are not cold or hot to the touch when they are picked up, do not slip easily out of the user's hand, enable an optimal operation of the divaricating spring where present, may be easily made in various shapes and colours, and may be made at a contained cost.

[0012] Exemplary unrestrictive embodiments of the invention will be described hereinafter with reference to the attached figures in which:

Fig. 1 is a front elevation of a pair of clippers with divaricating spring according to the invention, shown in a resting condition with the spring at rest; Fig. 2 is a view from the left of the same pair of nail clippers;

Fig. 3 is an exploded view of a handle part of a blade element of the clippers and corresponding insert represented as detached;

Fig. 4 is a view similar to that of Fig. 3 and shows a variant of the fit between insert and handle;

Fig. 5 shows another variant of fit between insert and handle;

Fig. 6 is a view, similar to that of Fig. 2, of a variant;

Fig. 7 is a front view of a further embodiment;

Fig. 8 is an enlarged cross section taken according to the plane 8-8;

Fig. 9 shows another embodiment in front view with a part removed; and

Fig. 10 is an enlarged cross section taken according to the plane 10-10.

[0013] With reference to the figures, a cutting device according to the invention is designated, as a whole, by the reference number 10 and comprises two blade elements, designated by 11 and 12, which respectively are pivoted together so that they can rotate one with respect to the other about the axis a which is at right angle to the plane of the sheet of Fig. 1.

[0014] The blade element 11 comprises a blade part 11' and a handle part 11"; the element 12 comprises a blade part 12' and a handle part 12". On the handle part 12" there is a divaricating spring 14 pivoted about an axis b which is basically parallel to the axis a. The divaricating spring 14 may turn about the axis b between a resting position, illustrated in Fig. 1, in which it does not engage the lever or opposed blade element 11, and a working position (not illustrated), in which it engages the element 11, constraining it, in the absence of external forces, in a divaricated position with respect to the element 12.

[0015] According to the invention, the external faces, or backs, of the handle parts 11" and 12" each carry an

insert, 21 and 22, respectively, or a number of inserts, if so desired, made of soft and elastic plastic material.

[0016] Preferably, the inserts are applied in recesses or cavities made in the back of the handle parts. One such cavity is indicated by the reference number 13 in Figs. 3-5 for the handle part 11". The inserts are made in the form of strips or with an elongated oval shape, or even, as indicated by 21c in Fig. 6, with a lenticular shape, and are applied to the surface of the handle portion by gluing, for example as is shown in Fig. 3.

[0017] According to one preferred alternative embodiment, the insert, is implemented as in 21a, with protruding stakes 25, 25, which are received in corresponding holes 15 in the handle and riveted on the inner face of the handle.

[0018] According to another embodiment, in Fig. 5, the insert 21b is provided with through holes 26, 26, for engaging fixing means, for example of a screw type, as indicated by 27, 27, suitable for engaging in threaded holes 17 in the handle part.

[0019] It is understood that other forms of fit between the plastic insert and the handle could be devised, without, however, departing from the scope of the present invention.

[0020] Figure 6 illustrates an example of embodiment of a cutting device 110 on which a number of lenticular inserts, designated by 21c, are provided on the handle part 112".

[0021] The shape of the insert or inserts may be of any sort.

[0022] Figures 7 and 8 show a variant, designated by 210, of the cutting device. The device 210, which is a pair of nail clippers, comprises blade elements 211, 212 with blade parts 211', 212' and handle parts 211", 212". The handle parts 211", 212" comprise respective inserts 221, 222 made of plastic, which is preferably relatively rigid. The inserts are coupled to the metal portion of each respective handle by means of a dovetail fit, as appears more clearly in Fig. 8.

[0023] Figures 9 and 10 show a cutting device 310 according to the present invention in the form of a pair of scissors. The blade elements 311 and 312 of the device have their handle parts 311" and 312" coupled to respective plastic inserts 321 and 322, which are relatively rigid and each of which forms a ring to accommodate a finger or thumb. Each insert, as may be better seen in Fig. 10, is coupled to the corresponding handle preferably by means of a dovetail fit.

Claims

1. **Nail and cuticle cutter** with blade elements (11, 12) pivoted together, which are free to move one with respect to the other between a closed position, with the blades brought up to one another, and an open position, with the blades divaricated, each of said blade elements (11, 12) comprising a handle portion

(11", 12") integral thereto, **characterized in that** both handle portion (11", 12") comprise, at least on their surfaces facing outwards, at least one insert (21, 22; 21a; 21b; 21c) made of plastic material.

2. **Nail and cuticle cutter** according to Claim 1, wherein said handle portion (11", 12") are made of metal.
3. **Nail and cuticle cutter** according to Claim 1, **characterized in that** said plastic material is soft, elastic and anti-slip plastic.
4. **Nail and cuticle cutter** according to Claim 1, **characterized in that** said plastic material is relatively rigid.
5. **Nail and cuticle cutter** according to Claim 1, **characterized in that** said at least one insert (21) is applied by gluing on the corresponding handle portion (11", 12").
6. **Nail and cuticle cutter** according to Claim 1, **characterized in that** said at least one insert (21; 21a; 21b; 21c) is applied on the corresponding handle portion (11", 12") in a recess (13) previously made therein.
7. **Nail and cuticle cutter** according to Claim 1, **characterized in that** said at least one insert (21a) has protruding stakes (25), and the corresponding handle portion (11", 12") has through holes (15) for receiving said stakes.
8. **Nail and cuticle cutter** according to Claim 1, **characterized in that** said at least one insert (21b) has through holes (26), and the corresponding said at least one insert (21b) has threaded holes (17) for receiving screws (27) for fixing said at least one insert (21b).
9. **Nail and cuticle cutter** according to Claim 1, comprising springs for divaricating the handles.
10. **Nail and cuticle cutter** according to Claim 4, **characterized in that** a plastic insert is coupled to the corresponding handle portion (11", 12") by means of a dovetail fit.
11. **Nail and cuticle care cutter** according to Claim 10, **characterized in that** the least one insert (21, 22; 21a; 21b; 21c) comprises a ring-shaped part.

Patentansprüche

1. Nagel- und Nagelhautschere mit drehbar miteinander verbundenen Scherenblättern (11, 12), die sich

jeweils frei zueinander zwischen einer geschlossenen Stellung mit einander angenäherten Scherenblättern und einer offenen Stellung mit gespreizten Scherenblättern bewegen können, wobei jedes der genannten Scherenblätter (11, 12) einen damit ein-
 teiligen Schenkelbereich (11", 12") umfasst, **dadurch gekennzeichnet, dass** beide Schenkelbe-
 reiche (11 ", 12") zumindest an ihren nach außen
 gerichteten Oberflächen mindestens einen Einsatz
 (21, 22; 21a, 21b; 21c;) aus Kunststoff umfassen.

2. Nagel- und Nagelhautschere gemäß Anspruch 1, wobei der genannte Schenkelbereich (11", 12") aus Metall ist.

3. Nagel- und Nagelhautschere gemäß Anspruch 1, **dadurch gekennzeichnet, dass** es sich bei dem genannten Kunststoffmaterial um weichen, elastischen und rutschfesten Kunststoff handelt.

4. Nagel- und Nagelhautschere gemäß Anspruch 1, **dadurch gekennzeichnet, dass** das genannte Kunststoffmaterial relativ starr ist.

5. Nagel- und Nagelhautschere gemäß Anspruch 1, **dadurch gekennzeichnet, dass** mindestens ein Einsatz (21) durch Verkleben am entsprechenden Schenkelbereich (11", 12") befestigt ist.

6. Nagel- und Nagelhautschere gemäß Anspruch 1, **dadurch gekennzeichnet, dass** mindestens ein Einsatz (21; 21 a; 2 1 b, 2 1 c;) am entsprechenden Schenkelbereich (11", 12") in einer zuvor darin hergestellten Aussparung (13) befestigt ist.

7. Nagel und Nagelhautschere gemäß Anspruch 1, **dadurch gekennzeichnet, dass** mindestens ein Einsatz (21a) vorstehende Stäbe (25) und der entsprechende Schenkelbereich (11", 12") durchgehende Öffnungen (15) aufweist, um die genannten Stäbe aufzunehmen.

8. Nagel- und Nagelhautschere gemäß Anspruch 1, **dadurch gekennzeichnet, dass** der genannte mindestens eine Einsatz (21b) durchgehende Öffnungen (26) und der genannte entsprechende mindestens eine Einsatz (21b) Gewindeöffnungen (17) zur Aufnahme von Schrauben (27) aufweist, um den genannten mindestens einen Einsatz (21b) zu befestigen.

9. Nagel- und Nagelhautschere gemäß Anspruch 1, die Federn zur Spreizung der Schenkel umfasst.

10. Nagel- und Nagelhautschere gemäß Anspruch 4, **dadurch gekennzeichnet, dass** ein Kunststoffeinsatz mit Hilfe einer Schwalbenschwanzverbindung mit dem entsprechenden Schenkelbereich (11",

12") verbunden ist.

11. Nagel- und Nagelhautschere gemäß Anspruch 10, **dadurch gekennzeichnet, dass** der mindestens eine Einsatz (21; 22; 21a; 21b; 21c) einen ringförmigen Teil umfasst.

Revendications

1. Coupe-ongles et coupe-cuticules à éléments à lame (11, 12) articulés entre eux, mobiles l'un par rapport à l'autre en une position fermée avec les lames rapprochées entre elles et une position ouverte avec les lames écartées entre elles, ces éléments à lame (11, 12) comprenant chacun une portion à manche (11", 12") intégré **caractérisée par le fait que** ces parties à manche comprennent, du moins sur leurs faces externes, au moins une pièce (21, 22 ; 21a; 21b ; 21c) en matière plastique.

2. Coupe-ongles et coupe-cuticules selon la revendication 1, où la portion à manche est métallique.

3. Coupe-ongles et coupe-cuticules selon la revendication 1, **caractérisé par le fait que** la matière plastique est un plastique mou, élastique et antidérapant.

4. Coupe-ongles et coupe-cuticules selon la revendication 1, **caractérisé par le fait que** la matière plastique est relativement rigide.

5. Coupe-ongles et coupe-cuticules selon la revendication 1, **caractérisé par le fait qu'au moins** une pièce (21) est appliquée par collage sur la partie à manche respective (11", 12").

6. Coupe-ongles et coupe-cuticules selon la revendication 1, **caractérisé par le fait qu'au moins** une pièce (21 ; 21a ; 21b ; 21c) est appliquée à la portion à manche (11", 12") correspondante dans une rainure (13) aménagée dessus.

7. Coupe-ongles et coupe-cuticules selon la revendication 1, **caractérisé par le fait qu'au moins** une pièce (21a) possède des têtes (25) en saillie et que la portion de manche (11", 12") possède des trous passants (15) pour recevoir ces têtes.

8. Coupe-ongles et coupe-cuticules selon la revendication 1, **caractérisé par le fait qu'au moins** une pièce (21b) possède des trous passants (26) et que cette pièce (21b) possède des trous filetés (17) pour recevoir des vis (27) de fixation de cette même pièce (21b).

9. Coupe-ongles et coupe-cuticules selon la revendication 1, où la portion à manche est métallique.

cation 1, comprenant des ressorts d'écartement des manches.

10. Coupe-ongles et coupe-cuticules selon la revendication 4, **caractérisé par le fait qu'**une pièce in plastique est unie à la portion de manche correspondante (11", 12") par couplage en queue d'hirondelle. 5
11. Coupe-ongles et coupe-cuticules selon la revendication 10, **caractérisé par le fait que** la pièce (21, 22, 21a, 21b, 21c) comprend une partie en forme d'oeillet. 10

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