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(11) **EP 1 724 074 A2**

(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:
22.11.2006 Bulletin 2006/47

(51) Int Cl.:
B26B 21/56 (2006.01) B26B 21/40 (2006.01)

(21) Application number: **06013580.3**

(22) Date of filing: **30.06.2006**

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI
SK TR**
Designated Extension States:
AL BA HR MK YU

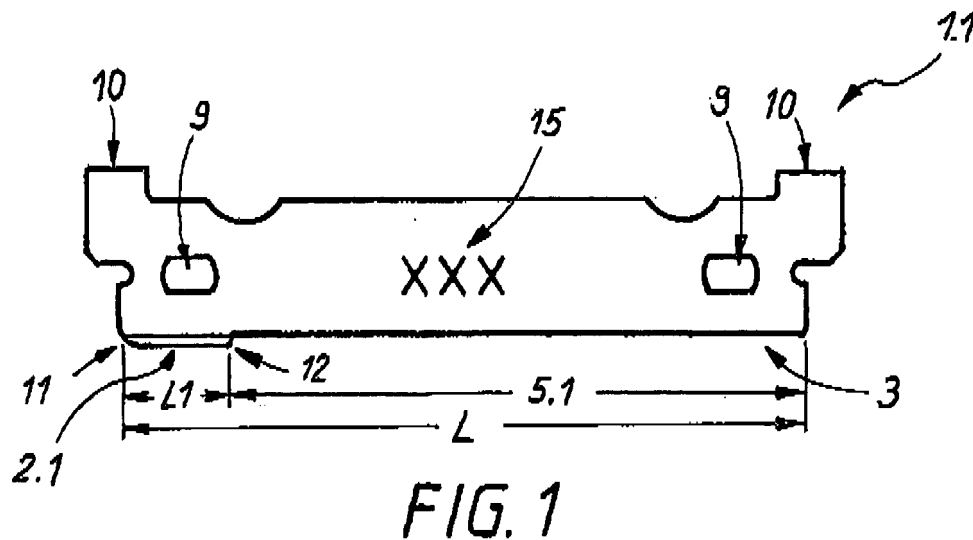
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(54) **Razor blade and the use thereof**

(57) A razor blade 1.1 with a cutting edge 2.1 on a longitudinal side 3 of the razor blade 1.1. The cutting edge 2.1 has a cutting length L1 that is less than one half the length L of the longitudinal side 3. The cutting edge 2.1 is located on one side of the longitudinal side 3,

wherein an area 5.1 of the cutting edge 2.1, which is cut out from the longitudinal side 3, is designed to be recessed relative and parallel to the cutting edge 2.1. This razor blade (1.1,1.2,1.3) can be used to target narrow shaving areas or shaving lines (for tattoos and the like) of human hair with a strong contour.



EP 1 724 074 A2

Description

[0001] The invention relates to a razor blade with a cutting edge on a longitudinal side of the razor blade and the use thereof.

[0002] This type of razor blade for a handheld razor is known, for example from DE1553829A (Figs. 8 and 9) and DE1553830A. Typically, this razor blade is broken in half over its length and one half of the razor blade is connected to the handheld razor, wherein openings on the razor blade are used to fix it to a receiver of the handheld razor. This razor blade has a cutting edge along the entire longitudinal side. Because of the constraint from this long cutting edge, this razor blade cannot be used to target narrow shaving areas or shaving lines (for tattoos and the like) of human hair with a strong shaving area contour,

[0003] Thus, the object of the invention is to obtain a generically equivalent razor blade, which does not have the aforementioned disadvantage, enables simple handling, and can be produced economically. In addition, it should be possible to use the razor blade with a commercially available handheld razor.

[0004] This object is achieved in accordance with the characterizing features of Claim 1 or 11. Additional progressions of the invention as recited in Claim 1 result from Sub-claims 2 through 10.

[0005] The invention is explained in more detail by means of embodiment examples.

The following is shown:

- Fig. 1 shows an enlarged top view of a first razor blade;
- Fig. 2 shows a top view of a handheld razor with the razor blade inserted into a receiver as per Fig. 1;
- Fig. 3 shows the handheld razor as per Fig. 2, but with the razor blade fixed into position;
- Figs. 4-6 show a top view of a set of various razor blades with a first, second, and third cutting edge length;
- Fig. 7 shows a top view of a first, undivided standard blade;
- Fig. 8 shows a top view of a second, undivided standard blade;
- Fig. 9 shows the top view of the razor blade as per Fig. 8, but with a shortened cutting edge length; and
- Fig. 10 shows a side view of a person with an example of a shaving pattern for scalp hair.

[0006] Fig. 1 shows a first razor blade 1.1 with a cutting edge 2.1 on a longitudinal side 3 of the razor blade 1.1. The cutting edge 2.1 has a cutting length L1 that is less than one half the length L of the longitudinal side 3. The cutting edge 2.1 is located on one side of the longitudinal side 3, wherein an area 5.1 of the cutting edge 2.1, which is cut out from the longitudinal side 3, is designed to be

recessed relative and parallel to the cutting edge 2.1.

[0007] The cut-out area 5.1 (5.2, 5.3/Fig. 5/6) is formed by punch-out, grind-out, or erosion (for example before or after production or sharpening of the cutting edge 2.1).

[0008] The razor blade 1.1 shown in Fig. 1 is formed from a standard blade 7 divided up along the length, which is shown as an undivided standard blade 7 in Fig. 7 and is supplied as such. This standard blade 7 for a handheld razor 6 is known, for example, from DE1553829A (Figs. 8 and 9). The undivided razor blade 1.1 as per Fig. 4 has two opposing cutting edges 2.1, a center longitudinal cut-out 8, and fixation openings 9, resulting in the razor blade 1.1 as per Fig. 1, formed by a center break 10 (designed break line 10.1) along the longitudinal cut-out 8, which is particularly economical in production.

[0009] To provide information regarding the shaving width (shaving line 17/Fig. 10) of the respective razor blade 1.1 (1.2, 1.3 in Fig. 5 and/or 6), it has a stamp 15 above the corresponding cutting edge length L1, L2, L3, for example showing "3 mm," "6 mm," or "10 mm" (Figs. 4 to 6).

[0010] A beginning 11 and an end 12 of the cutting edge length L1, L2, L3 are rounded off slightly thus reducing the risk of injury to the skin.

[0011] Fig. 2 shows a handheld razor 6 with a razor blade 1.1 inserted into a receiver 4 as per Fig. 1. The replaceable razor blade 1.1, 1.2, 1.3 can be received by a, preferably commercially available, handheld razor 6.

[0012] Fig. 3 shows the handheld razor 6 as per Fig. 2, but with the razor blade 1.1 fixed into position by a locking slider 18, and it is thus ready for use.

[0013] Because a first cutting edge 2.1 has a first cutting edge length L1, a precise shaving width can be targeted, which corresponds to the first cutting edge length L1 (Fig. 4).

[0014] Because a second cutting edge 2.2 has a second cutting edge length L2, a precise shaving width can be targeted, which corresponds to the second cutting edge length L2 (Fig. 5).

[0015] Because a third cutting edge 2.3 has a third cutting edge length L3, a precise shaving width can be targeted, which corresponds to the third cutting edge length L3 (Fig. 6).

[0016] The razor blade 1.1, 1.2, 1.3 consists of a set S (Figs. 4 to 6) of different razor blades 1.1, 1.2, 1.3, each having a first and a second and optionally at least a third cutting edge length L1, L2, L3. The first cutting edge length L1 (Fig. 4) is approximately 3 mm, the second cutting edge length L2 (Fig. 5) is approximately 6 mm, and the third cutting edge length L3 (Fig. 6) is approximately 10 mm. By replacing the selected razor blade 1.1, 1.2, 1.3, the user can easily and comfortably achieve different shaving widths or shaving lines 17 (for tattoos 13/Fig. 10 and the like) of human hair 14 with a strong shaving area contour.

[0017] Fig. 7 shows a first, undivided standard blade 7 corresponding to DE1553829A (Figs. 8 and 9).

[0018] Fig. 8 shows a second, undivided standard blade 7.1 corresponding to DE1553830A, wherein the razor blade 1.2.1 with a second cutting edge length L2 (for example 6 mm) manufactured from this standard blade 7.1 is shown in Fig. 9.

[0019] The razor blade 1.1, 1.2, 1.3 according to the invention is particularly suited for use with a commercially available handheld razor 5 for line-shaped shaving (shaving line 17) of zones of human hair (scalp hair) Z. In addition, the insertion/removal of the razor blade 1.1, 1.2, 1.3 is just as easy with the handheld razor 5 as it is with a commercially available standard blade. The fixed receiver 4 of the razor blade 1.1, 1.2, 1.3 in the handheld razor 5 has a stabilizing effect on the cutting edge 2.1, 2.2, 2.3 while shaving.

[0020] Fig. 10 shows a side view of a person P with the example of a shaving pattern 16 (for example a simulated tattoo 13) of a zone of scalp hair Z of human hair 14. The shaving pattern 16 is formed by multiple shaving lines 17.

Reference list:

[0021]

1.1-1.3	Razor blade
1.2.1	Razor blade
2.1-2.3	Cutting edge
3	Longitudinal side
4	Receiver
5.1-5.3	Area
6	Handheld razor
7, 7.1	Standard blade
8	Longitudinal cut-out
9	Fixation openings
10	Break
10.1	Designed break line
11	Start/cutting edge length L1-L3
12	End/cutting edge length L1-L3
13	Tattoo
14	Human hair
15	Stamp
16	Shaving pattern
17	Shaving line
18	Locking slider
L	Length/longitudinal side 3,
L1	First cutting edge length
L2	Second cutting edge length
L3	Third cutting edge length
P	Person
S	Set
Z	Zone of scalp hair

Claims

1. A razor blade (1.1, 1.2, 1.3) with a cutting edge (2.1, 2.2, 2.3) on a longitudinal side (3) of the razor blade

(1.1, 1.2, 1.3), **characterized in that** the cutting edge (2.1, 2.2, 2.3) has a cutting edge length (L1, L2, L3) that is less than half of the length (L) of the longitudinal side (3), and that the cutting edge (2.1, 2.2, 2.3) is arranged on one side of the longitudinal side (3), wherein an area (5.1, 5.2, 5.3) of the cutting edge (2.1, 2.2, 2.3), which is cut out from the longitudinal side (3), is designed to be recessed relative to the cutting edge (2.1, 2.2, 2.3),

2. The razor blade according to Claim 1, wherein the cut-out area (5.1, 5.2, 5.3) of the longitudinal side (3) is designed to be recessed parallel and relative to the cutting edge (2.1, 2.2, 2.3).

3. The razor blade according to Claim 1, wherein the cut-out area (5.1, 5.2, 5.3) is formed by punch-out, grind-out, or erosion.

4. The razor blade according to Claim 1, wherein the cutting edge (2.2) has a second cutting edge length (L2).

5. The razor blade according to Claim 1, wherein the cutting edge (2.3) has a third cutting edge length (L3).

6. The razor blade according to Claim 1, wherein the razor blade (1.1, 1.2, 1.3) consists of a set (S) of different razor blades (1.1, 1.2, 1.3) each having a first and a second and optionally at least a third cutting edge length (L1, L2, L3).

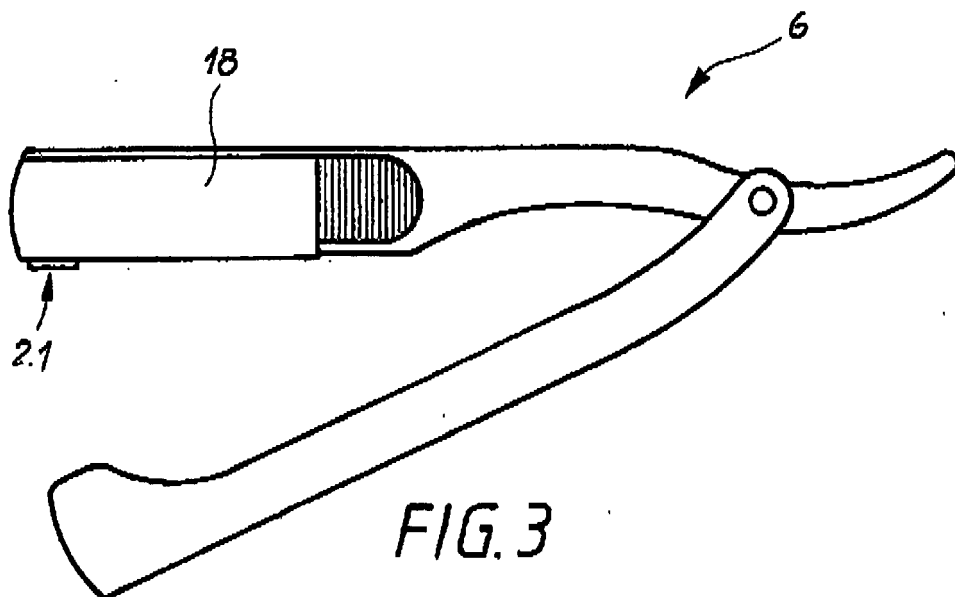
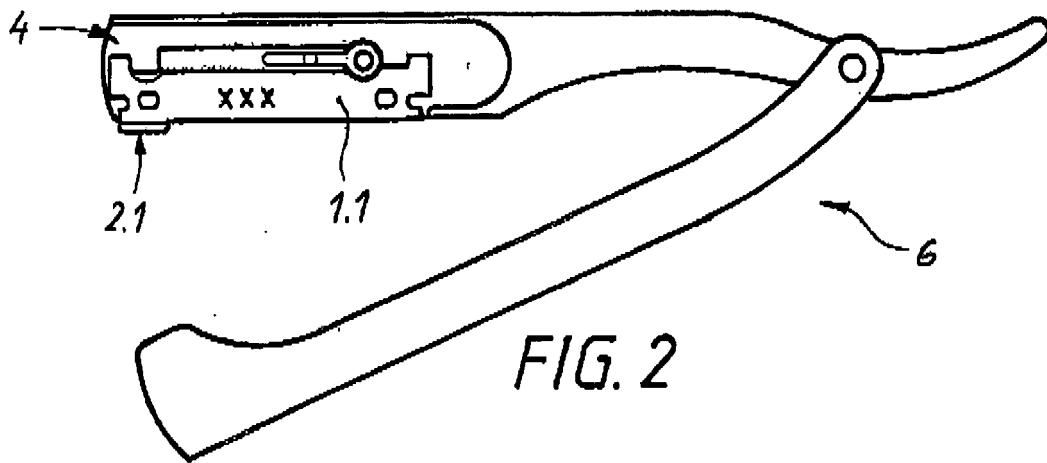
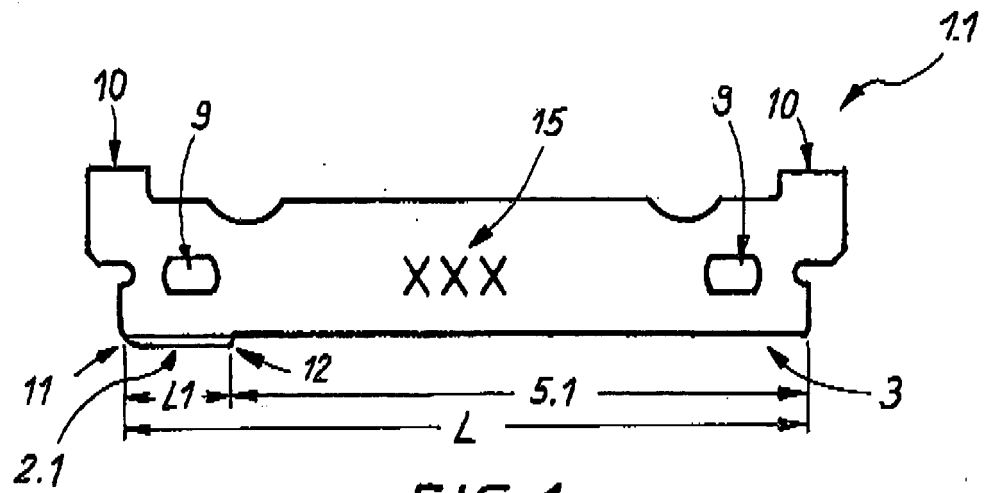
7. The razor blade according to Claim 1, wherein the first cutting edge length (L1) is approximately 3 mm, the second cutting edge length (L2) is approximately 6 mm, and the third cutting edge length (L3) is approximately 10 mm.

8. The razor blade according to Claim 1, wherein the replaceable razor blade (1.1, 1.2, 1.3) is received by a handheld razor (6).

9. The razor blade according to Claim 1, wherein the razor blade (1.1, 1.2, 1.3) is formed by a standard blade (7, 7.1), with two opposing cutting edges (2.1, 2.2, 2.3) and at least one center longitudinal cut-out (8) and multiple fixation openings (9), by a center break (10) along the longitudinal cut-out (8).

10. The razor blade according to Claim 1, wherein the razor blade (1.1, 1.2, 1.3) has a stamp (15) above the cutting edge length (L1, L2, L3).

11. Use of the razor blade according to at least one of Claims 1 to 10 for line-shaped shaving of zones of scalp hair (Z).



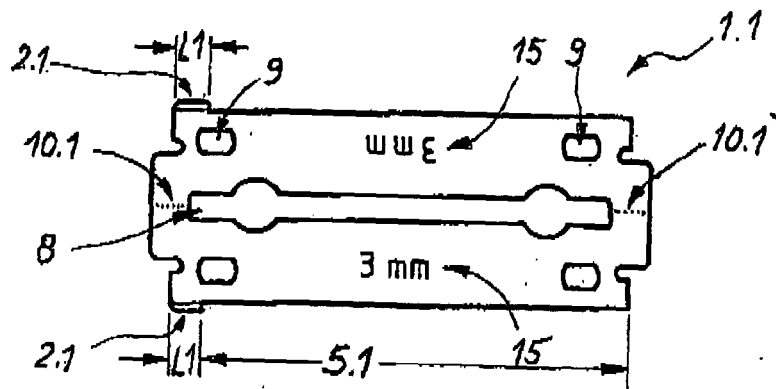


FIG. 4

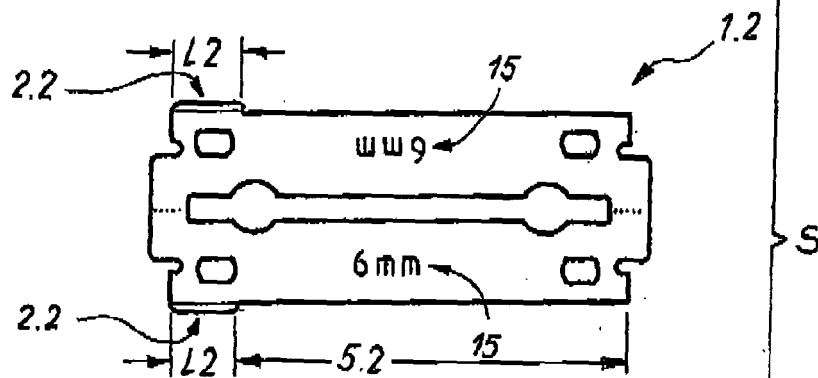


FIG. 5

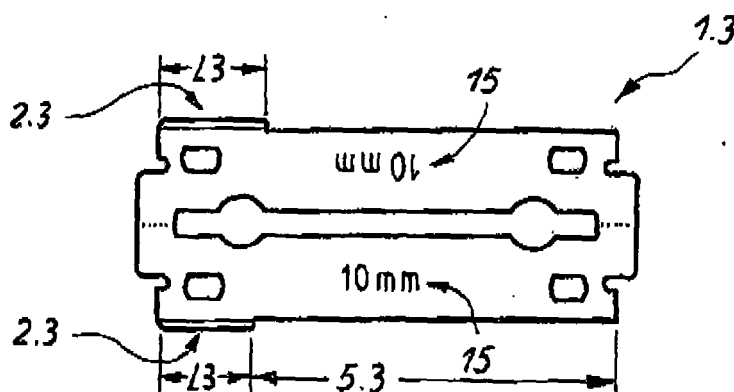


FIG. 6

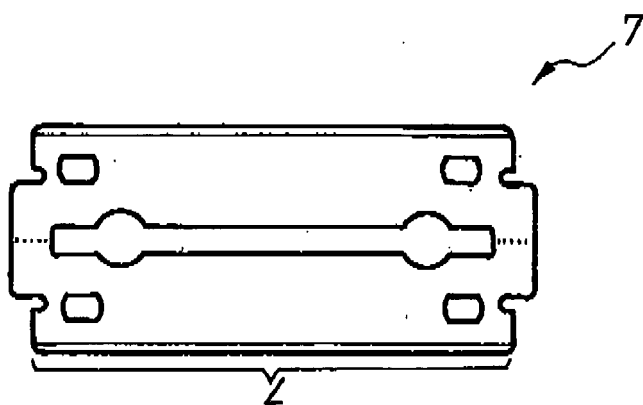


FIG. 7

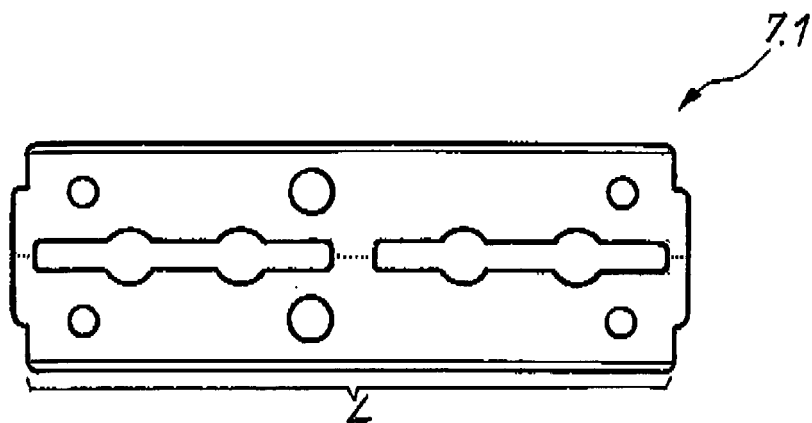


FIG. 8

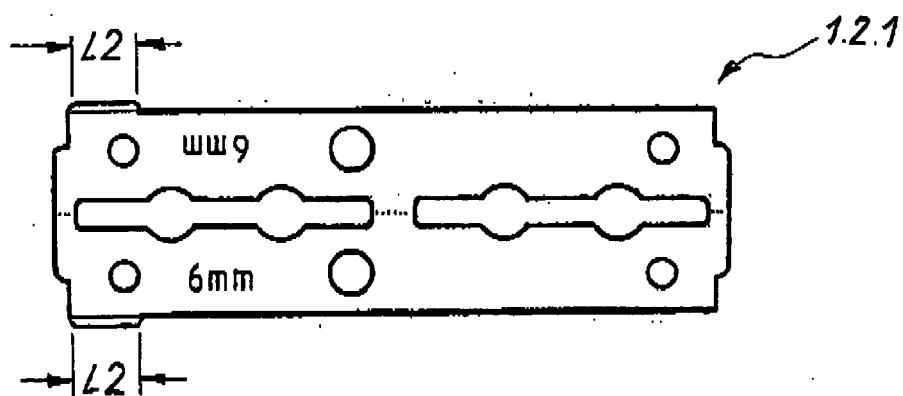


FIG. 9



FIG. 10

REFERENCES CITED IN THE DESCRIPTION

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