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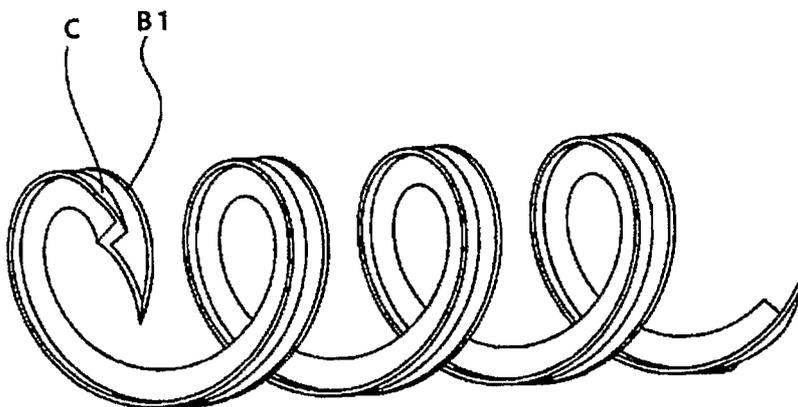
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(54) Title: EXCHANGEABLE SPIRAL SHAVING RAZOR



(57) Abstract: Exchangeable spiral shaving razor (Fig. 1) consists of a spiral - shaped blade or blades (B). Between blades there is a distance piece (C) which is, together with a spiral - shaped blade, fixed to lateral sides or caps. Lateral sides or spiral axis are made in such a way that they can be rotated on its axis and simultaneously fixed to the razor handle.



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## EXCHANGEABLE SPIRAL SHAVING RAZOR

This invention refers to exchangeable shaving razor consisting of a head with a spiral – shaped blade or blades. Pursuant to international patent classification (IPC) it belongs to class.

Fast blade wearing or blunting is one of the main issues encountered in shaving because it makes face and body shaving more difficult and expensive.

Existing technical solutions are based on the principle, i.e. linear blades are positioned across the handle, i.e. perpendicular to dragging direction of a razor. Such a principle of transversal hair cutting results in fast blade wearing, i.e. blunting of blades. It makes shaving more difficult and expensive. In addition, blades of such razors are positioned mainly on the front plane while the back plane is not used mainly because it is either connected to the handle or it serves for fixing to the handle.

This solution enables the face and body hair to be cut instead to be "sliced".

The main goal of this invention is to improve the quality of shaving and make it cheaper at the same time.

The second goal is to enable cutting of the face and body hair.

Next goal is to enable simultaneous cutting and "slicing" of the face and body hair.

Further goal is to achieve that by rotation the spiral head turned (rotated) to the blades not being used yet.

Figure 1 Exchangeable spiral razor with spiral – shaped blades, laterally fixed with caps489

Figure 2 One blade bent in spiral form

Figure 3 An example with several blades

Figure 4 Head with spiral – shaped blades, integrated into the handle

Figure 5 Magnified view of cutting, i.e. angle of the spiral blade in relation to hair (f) and in relation to dragging direction (d) of the razor.

Figure 6 Schematic illustration of the spiral razor head with more blades and fewer windings

Figure 7 Schematic illustration of the spiral razor head with fewer blades and more windings.

Exchangeable shaving razor (Figure 1) consists of a head with a spiral – shaped blade (B) or blades fixed laterally, i.e. at spiral ends, with caps (A).

The blade spiral (cutting edge) can be wound in one or several windings enabling cutting angle to be decreased or increased, as well as number of operating cutting edges. Number of blades or cutting edges wound in spiral shape can constitute one or more wound blades.

Exchangeable shaving razor includes a distance piece (C) enabling a perfect distance between the blade/blades and face and body skin to be achieved. Blades or a spiral consisting of blades are elastic for better ergonomics.

Exchangeable shaving razor consists of spiral-shaped blade/blades which can be, owing to their spiral form, rotated on its axis in a controlled manner.

Experts will understand that various modifications of shaving razors could be done applying this invention and not leaving scope and idea of the invention.

**PATENT CLAIMS**

1. Exchangeable shaving blade is characterised by a head with a spiral – shaped blade or blades.
2. Exchangeable shaving blade is characterised by a blade/blades with the head fixed with caps at the spiral ends.
3. Blade spiral or cutting edge is characterised by with a single or several windings so that cutting angle can be decreased or increased as well as number of operating cutting edges.
4. Number of blades wound in spiral is characterised by the fact that spiral razor consists of one or several blades.
5. Exchangeable shaving blade is characterised by a distance piece between blades enabling a perfect distance between the blade/blades and face and body skin to be achieved.
6. Blades or a spiral consisting of blades are elastic for better ergonomomy.
7. Exchangeable shaving blade is characterised by a head with a spiral - shaped blade or blades which can be, due to spiral form, rotated on its axis in a controlled manner.
8. Exchangeable spiral – shaped shaving blade can be combined with an electric vibrator, i.e. oscillator.

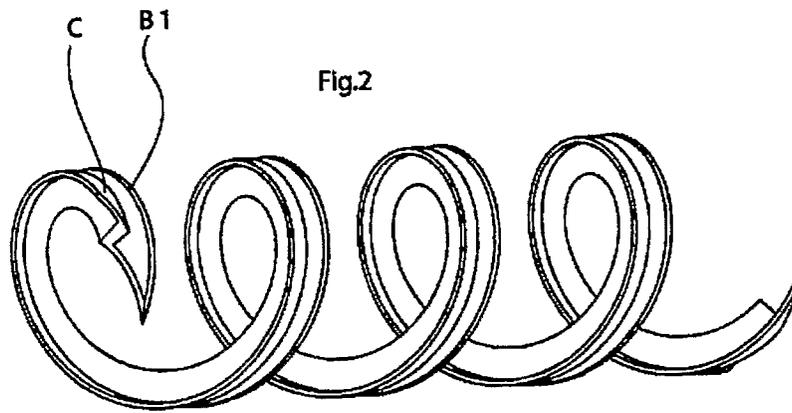
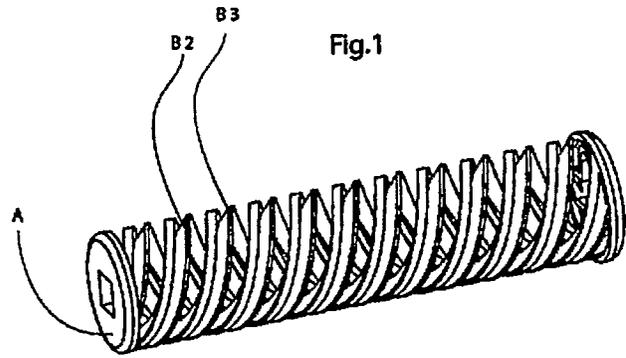


Fig.3

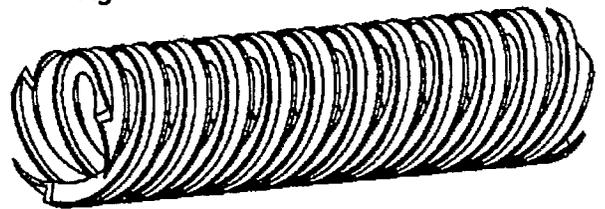


Fig.4

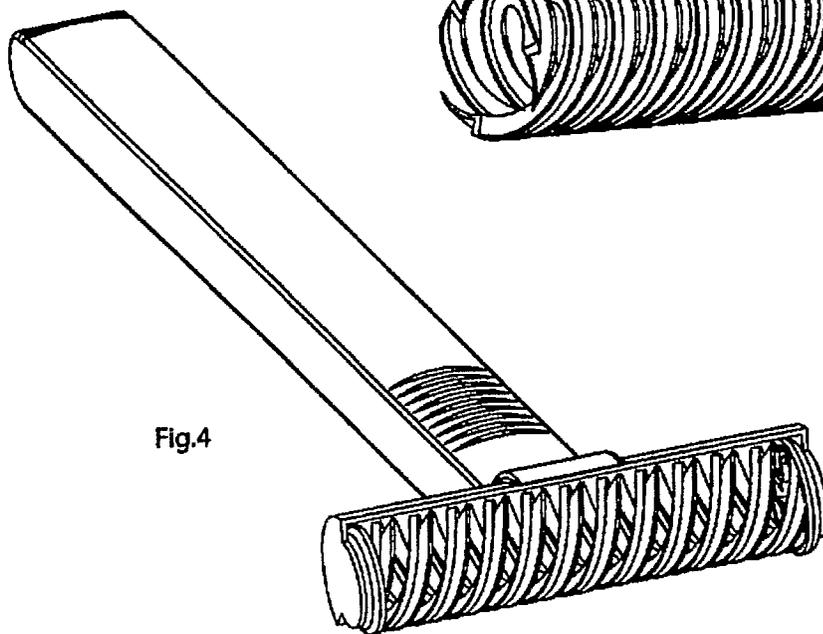
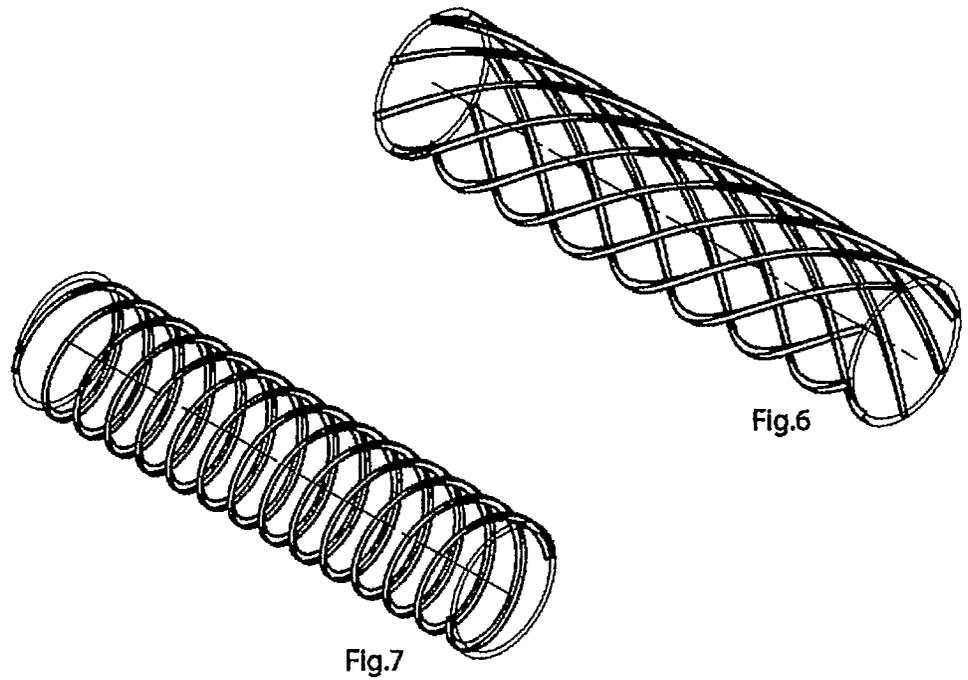
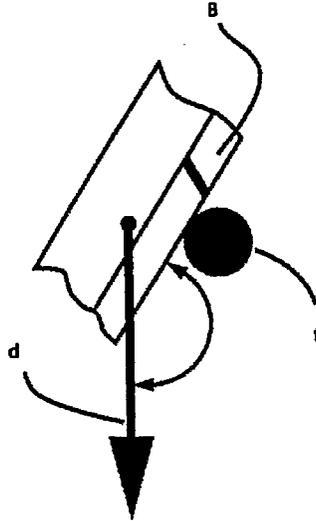


Fig.5



**INTERNATIONAL SEARCH REPORT**

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**A. CLASSIFICATION OF SUBJECT MATTER**  
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According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

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B26B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 834 351 C (DEUTA WERKE GMBH) 20 March 1952 (1952-03-20) page 2, lines 1-39; figures 1,2	1-4,6,8
X	US 2 411 594 A (HENRY RUSKIN) 26 November 1946 (1946-11-26) column 4, lines 16-32; figures 2,3,2a	1,3,4,7
X	column 3, lines 40-47; figures 8,9	5
X	EP 1 145 810 A (PHILIPS CORP INTELLECTUAL PTY [DE]; KONINKL PHILIPS ELECTRONICS NV [NL] 17 October 2001 (2001-10-17) paragraph [0014]; figure 1	3-5,7
X	US 2 120 009 A (NICHOLAS TESTI) 7 June 1938 (1938-06-07) column 2, line 32 - column 3, line 15; figures 1,2,8-10	3-5,7
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Further documents are listed in the continuation of Box C.

See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No <b>PCT/HR2007/000043</b>
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