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(54) Title (EN): HAIR-CUTTING UNIT WITH CUTTER BLOCKING PREVENTION

(54) Title (FR): UNITÉ DE COUPE DE CHEVEUX AVEC PRÉVENTION DE BLOCAGE DU DISPOSITIF DE COUPE

(57) Abstract:

(EN): A rotary hair-cutting unit comprises an internal cutting member (7) having cutting elements (10) with cutting edges (11), and an external cutting member (6) having hair-guiding elements (16) with counter-cutting edges (17). The co-operating edges are enclosing a shearing angle, so that during rotation a cutting edge first meets a counter-cutting edge at a radial initial-passing position. In a cross-section at said radial initial-passing position and taken perpendicularly to the radial direction, only one of the internal cutting member and the external cutting member is provided with a particular abutment geometry. Even in cases where a hair-guiding element is deeply depressed towards a rotating cutting element, the abutment geometry will be effective to push the depressed hair-guiding element and the rotating cutting element axially away from one another, so that the cutting element will pass the hair-guiding element without being blocked and without causing substantial collision damage.

(FR): L'invention concerne une unité de coupe de cheveux rotative comprenant un organe de coupe interne (7) ayant des éléments de coupe (10) dotés de bords de coupe (11), et un organe de coupe externe (6) ayant des éléments de guidage de cheveux (16) dotés de contre-bords de coupe (17). Les bords coopérants entourent un angle de cisaillement, de sorte que pendant la rotation, un bord de coupe rencontre d'abord un contre-bord de coupe au niveau d'une position de passage initiale radiale. Dans une section transversale au niveau de ladite position de passage initiale radiale, et prise perpendiculairement à la direction radiale, un seul parmi l'organe de coupe interne et l'organe de coupe externe est pourvu d'une géométrie de butée particulière. Même dans les cas où un élément de guidage de cheveux est enfoncé profondément vers un élément de coupe rotatif, la géométrie de butée poussera efficacement l'élément de guidage de cheveux enfoncé et l'élément de coupe rotatif axialement à l'écart l'un de l'autre, de sorte que l'élément de coupe passera à côté de l'élément de guidage de cheveux sans être bloqué et sans provoquer de dommages importants résultant d'une collision.

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Declarations:

Declaration made as applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate