

Title (en)
HAIR CUTTING APPLIANCE

Title (de)
HAARSCHNEIDEVORRICHTUNG

Title (fr)
APPAREIL DE COUPE DE CHEVEUX

Publication
EP 3608069 A1 20200212 (EN)

Application
EP 18187636 A 20180807

Priority
EP 18187636 A 20180807

Abstract (en)
A hair cutting appliance comprises an external cutting member and an internal cutting member arranged rotatable to the external cutting member for cutting hair. The internal cutting member is driven via a first coupling element by a drive spindle (24) rotatable about an axis of rotation (35) and having a first spindle part (26) arranged to be driven by a drive, and a second spindle part (30) arranged to be coupleable to the internal cutting member, the first and second spindle parts (26, 30) being displaceable relative to each other in an axial direction parallel to the axis of rotation (35); wherein the second spindle part (30) comprises a second coupling element (34) which is releasably coupleable to the first coupling element for transmitting, during operation, a driving torque about the axis of rotation (35) from the drive spindle (24, 24a) to the internal cutting member; wherein one of the first and second spindle parts (26, 30) comprises an abutment element (36) and the other of the first and second spindle parts (26, 30) comprises an abutment surface (38) arranged to cooperate with the abutment element (36) for transmitting, during operation, the driving torque from the first spindle part (26) to the second spindle part (30); wherein the abutment surface (38) is arranged at an angle α relative to a tangential direction relative to the axis of rotation (35), wherein $0^\circ < \alpha < 90^\circ$ such that a transmission of the driving torque from the first spindle part (26) to the second spindle part (30) via the abutment element (36) and the abutment surface (38) results in a force exerted by the first spindle part (26) on the second spindle part (28) having a component parallel to the axis of rotation (35) and directed towards the internal cutting member, wherein the first and second coupling elements are configured to transmit the component from the second spindle part (30) to the second coupling element (34).

IPC 8 full level
B26B 19/14 (2006.01); **B26B 19/28** (2006.01)

CPC (source: EP)
B26B 19/14 (2013.01); **B26B 19/28** (2013.01)

Citation (applicant)
• US 5283953 A 19940208 - IKUTA TOSHIO [JP], et al
• US 7698819 B2 20100420 - DE WIT BASTIAAN JOHANNES [NL], et al
• US 2003019107 A1 20030130 - VISMAN PIETER [NL], et al
• EP 2018051763 W 20180125

Citation (search report)
• [AD] US 7698819 B2 20100420 - DE WIT BASTIAAN JOHANNES [NL], et al
• [AD] US 2003019107 A1 20030130 - VISMAN PIETER [NL], et al
• [A] WO 2008010139 A1 20080124 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
• [A] EP 1175972 A2 20020130 - IZUMI PROD CO [JP]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3608069 A1 20200212

DOCDB simple family (application)
EP 18187636 A 20180807