

Title (en)  
Electric hair cutting machine

Title (de)  
Elektrische Haarschneidemaschine

Title (fr)  
Appareil électrique pour la coupe de cheveux

Publication  
**EP 2123408 A1 20091125 (EN)**

Application  
**EP 08156531 A 20080520**

Priority  
EP 08156531 A 20080520

Abstract (en)  
For an electric hair cutting machine (1) having a gripping piece (2), a longitudinal axis (17) of the gripping piece (2), a drive (3), a fixed clipper blade (4), a clipper blade (5) that is aligned parallel to the fixed clipper blade (4) and that adjoins it in a cutting plane (16) and that can be moved back and forth, as well as gearing (6) that transfers a rotational movement of a drive shaft (7) to the movable clipper blade (5), wherein the drive shaft (7) has a reversing device, preferably an eccentric (8), in order to convert the rotational movement into a linear back-and-forth movement, with a reversing lever (10), which can be swiveled around a bearing axle (9), wherein the reversing lever (10) connects the reversing device to the movable clipper blade (5), as well as with a sliding block (11) on a pin (12) of the eccentric (8), the sliding block (11) is held in position by a retainer (13) on one end (14) of the reversing lever (10). In order to achieve optimized handling and a smooth-running mechanical system, which enables a minimized drive, it is proposed that the cutting plane (16) form an angle (18) of from 10 to 70 degrees, or preferably of from 20 to 30 degrees, with the longitudinal axis (17) of the gripping piece (2), and that the sliding block (11) be designed in the form of a cylinder (19) that extends in the direction (15) indicated or in the form of a ball (20).

IPC 8 full level  
**B26B 19/06** (2006.01); **B26B 19/28** (2006.01)

CPC (source: EP)  
**B26B 19/06** (2013.01); **B26B 19/28** (2013.01)

Citation (applicant)  
• US 3959878 A 19760601 - IRELAN EDWARD A, et al  
• DE 10338401 A1 20040226 - WELLA AG [DE]  
• US 3958878 A 19760525 - SMITH RICHARD E, et al  
• US 4723362 A 19880209 - BOERGER DANIEL A [US]  
• DE 142358 C

Citation (search report)  
• [XY] US 4723362 A 19880209 - BOERGER DANIEL A [US]  
• [Y] DE 142358 C  
• [Y] GB 2378407 A 20030212 - SMALL WAYNE RUSSELL [AU]  
• [Y] US 3589007 A 19710629 - WALTON WILLIAM M  
• [A] US 5088200 A 19920218 - PIWARON JOHN M [US], et al  
• [A] WO 03053641 A1 20030703 - FABRICATIONS BARBOT GENIA SOC [FR], et al  
• [A] US 3570122 A 19710316 - WILLIMAS VERNON H  
• [A] US 1421350 A 19220627 - POWELL EVERTON B

Cited by  
WO2019007864A1; US2011119930A1; GB2520447A; CN106625789A; EP2332699A1; EP3424653A1; RU2756058C2; US2018207817A1; US10737402B2; EP2776217A4; EP4082729A1; WO2017109143A1; WO2014030079A1; WO2011069673A1; US10449682B2; US11090823B2; US11331820B2

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DOCDB simple family (application)  
**EP 08156531 A 20080520**; AU 2009249227 A 20090519; BR PI0912886 A 20090519; CA 2725161 A 20090519; CN 200980118536 A 20090519; ES 08156531 T 20080520; HK 10103998 A 20100423; JP 2011509799 A 20090519; MX 2010012684 A 20090519; US 2009044470 W 20090519