

Title (en)  
MECHANISM FOR BRUSHES WITH ROTATING HEAD PARTS

Title (de)  
MECHANISMUS FÜR BÜRSTEN MIT DREHENDEN KOPFTEILEN

Title (fr)  
MÉCANISME POUR BROSSES AVEC TÊTE ROTATIVES

Publication  
**EP 2355746 A2 20110817 (EN)**

Application  
**EP 09784692 A 20090714**

Priority  

- GB 2009001734 W 20090714
- GB 0812829 A 20080714
- GB 0817780 A 20080929
- GB 0903008 A 20090223
- GB 0904438 A 20090316

Abstract (en)  
[origin: WO2010007358A2] A brush, such as a toothbrush, has a brushing head (1) incorporating one or more rotatable brush inserts (2). The brushing head (1) and the inserts (2) both have a plurality of bristles (4, 32, 33, 34, 35) of various forms extending therefrom, the bristles of the inserts (2) being surrounded by the bristles of the brushing head (1). The inserts (2) are retained in sockets within the brushing head (1), within which they may both rotate and move translationally, preferably undergoing an orbital motion around the socket. The inserts (2) may move continuously or reciprocally. This motion of the inserts (2) is generated by manual movement of the brush, for example while brushing a user's teeth. The inserts (2) may be provided with toothed cogs (10) that engage with recesses (6) or gaps (6) between teeth arrayed around an interior of each socket. More complex gear arrangements are also envisaged. In one variant, the brush includes an electric motor (36) powering a mechanism to vibrate the brushing head (1) as a whole; however, this motor (36) still does not drive the inserts (2).

IPC 8 full level  
**A61C 17/16** (2006.01); **A46B 7/06** (2006.01); **A46B 7/08** (2006.01)

CPC (source: EP GB US)  
**A46B 5/0095** (2013.01 - EP US); **A46B 7/06** (2013.01 - GB); **A46B 7/08** (2013.01 - EP GB US); **A46B 9/025** (2013.01 - EP US); **A46B 9/04** (2013.01 - EP US); **A46B 13/023** (2013.01 - EP US); **A46B 15/0002** (2013.01 - EP US); **A46B 15/0055** (2013.01 - EP US); **A46B 15/0081** (2013.01 - EP US); **A46D 1/00** (2013.01 - EP US); **A46D 1/023** (2013.01 - EP US); **A61C 17/16** (2013.01 - GB); **A61C 17/222** (2013.01 - EP US); **A61C 17/3481** (2013.01 - EP US); **A61C 17/349** (2013.01 - EP US); **A46B 2200/102** (2013.01 - EP US); **A46B 2200/1066** (2013.01 - EP US); **A46B 2200/3046** (2013.01 - EP US); **A46B 2200/306** (2013.01 - EP US); **A46B 2200/3086** (2013.01 - EP US)

Designated contracting state (EPC)  
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 SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2010007358 A2 20100121**; **WO 2010007358 A3 20100311**; **WO 2010007358 A8 20110707**; CN 102186435 A 20110914;  
EP 2355746 A2 20110817; GB 201102605 D0 20110330; GB 2474220 A 20110406; GB 2474220 B 20111221; US 2011138563 A1 20110616

DOCDB simple family (application)  
**GB 2009001734 W 20090714**; CN 200980136049 A 20090714; EP 09784692 A 20090714; GB 201102605 A 20090714;  
US 200913054091 A 20090714