

Title (en)  
Toothbrush

Title (de)  
Zahnbürste

Title (fr)  
Brosse à dents

Publication  
**EP 1958534 A1 20080820 (DE)**

Application  
**EP 07003109 A 20070214**

Priority  
EP 07003109 A 20070214

Abstract (en)  
The toothbrush (10) has a neck region (12) connected with a grip region and carrying a head region (14) opposite to the grip region. The head region has a bristle supporting element (22) for receiving bristles bunched out from a top supporting element opening to an upper side (28). The supporting element is elastically moved opposite to the neck region. The supporting element is elastically connected with the neck region via a foil-type hard film (24). The hard film externally extends around the top supporting element opening, in a flush fashion. An independent claim is also included for a method for manufacturing a toothbrush.

Abstract (de)  
Die erfindungsgemässe Zahnbürste (10) weist in ihrem Kopfbereich (14) zum Tragen von Borsten bestimmte Borstentragelemente (22) auf, die über einen folienartigen Hartfilm (24) elastisch gegenüber einem Halsbereich (12) und untereinander abwinkel- bzw. verdrehbar angeordnet sind. Vorzugsweise erstreckt sich der folienartige Hartfilm (24) dabei bündig aussen um eine obere Tragelementöffnung des Borstentragelements (22).

IPC 8 full level  
**A46B 5/00** (2006.01); **A46B 7/06** (2006.01); **A46B 9/08** (2006.01)

CPC (source: EP US)  
**A46B 5/0025** (2013.01 - EP US); **A46B 9/08** (2013.01 - EP US); **A46B 2200/1066** (2013.01 - EP US)

Citation (search report)

- [X] WO 9324034 A1 19931209 - AUSWORLD CONSULTANTS LIMITED [GB], et al
- [X] US 2935755 A 19600510 - RAMON LEIRA ALBERTO, et al
- [X] US 5318352 A 19940607 - HOLLAND NETTA [IL]
- [X] DE 10221786 A1 20031127 - SCHIFFER FA M & C [DE]
- [X] WO 2006012956 A2 20060209 - UNILEVER NV [NL], et al
- [A] WO 03063645 A1 20030807 - PARK HYO-MOON [KR]
- [A] US 5669097 A 19970923 - KLINKHAMMER RONALD W [US]
- [A] US 2685703 A 19540810 - DELLENBACH EDWARD F

Cited by  
CN104144623A

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**EP 1958534 A1 20080820**; EP 2114196 A1 20091111; EP 2114196 B1 20170315; US 2010088836 A1 20100415; WO 2008098721 A1 20080821

DOCDB simple family (application)  
**EP 07003109 A 20070214**; EP 08715725 A 20080211; EP 2008001013 W 20080211; US 44934308 A 20080211