

Title (en)

TOOTHBRUSH COMPRISING IMPROVED MEANS FOR FIXING FRICTION ELEMENTS

Title (de)

ZAHNBÜRSTE MIT VERBESSERTEN BEFESTIGUNGSMITTEL DER REIBUNGSELEMENTEN

Title (fr)

BROSSE A DENTS COMPORTANT DES MOYENS PERFECTIONNES DE FIXATION DES ELEMENTS DE FRICTION

Publication

EP 1049391 B1 20020911 (FR)

Application

EP 99900979 A 19990121

Priority

- FR 9900122 W 19990121
- FR 9800798 A 19980126

Abstract (en)

[origin: US6463618B1] A toothbrush, of the type in which a brush head is equipped with flexible friction rods which include a lower anchoring foot by fastening the rods to a principal body of the head, the anchoring foot of at least some of the rods is received in an anchoring hole passing through the principal body in such a way that upper and lower ends of the anchoring foot are arranged above and below the upper and lower faces, respectively, of the principal body, an upper end of an anchoring foot is connected to a lower end by a bridge of material which extends outside the anchoring hole and, at the lower and upper ends of the anchoring foot, the bridge of material bears against the lower and upper faces, respectively, of the principal body in order to fasten the rods to the head.

IPC 1-7

A46B 9/06

IPC 8 full level

A46B 9/04 (2006.01); **A46B 3/22** (2006.01); **A46B 9/06** (2006.01)

IPC 8 main group level

A46B (2006.01)

CPC (source: EP US)

A46B 9/06 (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

US 6463618 B1 20021015; AT E223667 T1 20020915; AU 2061599 A 19990809; BR 9907250 A 20030218; CZ 20002597 A3 20010314; CZ 296914 B6 20060712; DE 69902878 D1 20021017; DE 69902878 T2 20030410; DK 1049391 T3 20030113; EP 1049391 A1 20001108; EP 1049391 B1 20020911; ES 2183503 T3 20030316; FR 2773961 A1 19990730; FR 2773961 B1 20000310; HU 224360 B1 20050829; HU P0100363 A2 20010528; HU P0100363 A3 20010928; JP 2002500904 A 20020115; JP 4259757 B2 20090430; MY 118893 A 20050228; NO 20003097 D0 20000615; NO 20003097 L 20000920; NO 325210 B1 20080225; PL 190130 B1 20051130; PL 341935 A1 20010507; PT 1049391 E 20021231; RU 2197162 C2 20030127; SA 99191305 B1 20061011; SI 1049391 T1 20021231; SK 10742000 A3 20010212; SK 285805 B6 20070802; TW 464485 B 20011121; WO 9937182 A1 19990729

DOCDB simple family (application)

US 60099700 A 20000918; AT 99900979 T 19990121; AU 2061599 A 19990121; BR 9907250 A 19990121; CZ 20002597 A 19990121; DE 69902878 T 19990121; DK 99900979 T 19990121; EP 99900979 A 19990121; ES 99900979 T 19990121; FR 9800798 A 19980126; FR 9900122 W 19990121; HU P0100363 A 19990121; JP 2000528186 A 19990121; MY P19900195 A 19990118; NO 20003097 A 20000615; PL 34193599 A 19990121; PT 99900979 T 19990121; RU 2000122455 A 19990121; SA 99191305 A 19990414; SI 9930106 T 19990121; SK 10742000 A 19990121; TW 88100974 A 19990122