

Title (en)  
Toothbrush having cavities

Title (de)  
Zahnbürste mit Ausnehmungen

Title (fr)  
Brosse à dents avec cavités

Publication  
**EP 1621105 A1 20060201 (DE)**

Application  
**EP 04018191 A 20040731**

Priority  
EP 04018191 A 20040731

Abstract (en)  
On the upper side (28) of the handle surface layer (20), virtually parallel to the longitudinal axis (11a) strips are molded. Near these, to the sides, there are recesses (37) which penetrate from the upper side to the underside (30). Recesses are made between longitudinal strips (42) as a hole (38) penetrating the long axis. Holes form a straight-line row along the axis. Further dispositions and forms of penetrating holes are described.

IPC 8 full level  
**A46B 5/02** (2006.01)

CPC (source: EP US)  
**A46B 5/02** (2013.01 - EP US); **A46B 2200/1066** (2013.01 - EP US)

Citation (applicant)  
• DE 4222931 C1 19931209 - HENKEL KGAA [DE]  
• US 6286173 B1 20010911 - BRIONES NICK WALTER ALCANTARA [US]  
• EP 1397976 A1 20040317 - COLGATE PALMOLIVE CO [US]  
• US 1840246 A 19320105 - NEWMAN PHILIP S  
• US 1860924 A 19320531 - GEORGE COOKE RUPERT  
• US 6016587 A 20000125 - SAVITT JONATHAN ALAN [GB], et al  
• WO 0215740 A1 20020228 - SANOFI SYNTHELABO [FR], et al

Citation (search report)  
• [AD] EP 1397976 A1 20040317 - COLGATE PALMOLIVE CO [US]  
• [A] US 2263885 A 19411125 - MCGAULEY WALTER G  
• [AD] DE 4222931 C1 19931209 - HENKEL KGAA [DE]

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