

Title (en)
LIGHTED SYSTEM TOOTHBRUSH

Title (de)
ZAHNBÜRSTE MIT BELEUCHTUNGSSYSTEM

Title (fr)
BROSSE À DENTS AVEC SYSTÈME LUMINEUX

Publication
EP 2156765 A4 20100303 (EN)

Application
EP 08763903 A 20080526

Priority
• JP 2008001303 W 20080526
• JP 2007171183 A 20070604

Abstract (en)
[origin: EP2156765A1] There is provided a system toothbrush with illumination that allows a user to easily observe the inside of the oral cavity during tooth brushing at homes, helps the health care in the oral cavity, as well as contributes to the user's economies and earth environments. The system toothbrush with illumination includes a gripping portion 100 that is formed to be slightly flat and stores therein an LED light source 120, a battery 130, and a switch 140 performing ON/OFF operations of the LED light source 120; and an attachment portion 200 detachably and compatibly connected to both ends of the gripping portion 100. The attachment portion 200 includes at least a mirror portion 210 and a toothbrush portion 220, and may further include an auxiliary toothbrush portion 230. Storage insertion holes 161, 162 are formed in the gripping portion 100 to store the attachment portion 200, and two button-shaped batteries 130 are overlappingly stored in the horizontal orientation at substantially the center of the gripping portion 100. And, an LED light source 120 is arranged near the one end of the gripping portion 100, and the light is emitted towards the attachment portion 200.

IPC 8 full level
A46B 15/00 (2006.01)

CPC (source: EP US)
A46B 15/0002 (2013.01 - EP US); **A46B 15/0036** (2013.01 - EP US); **A46B 15/0055** (2013.01 - EP US); **A46B 15/0077** (2013.01 - EP US); **A46B 2200/1066** (2013.01 - EP US)

Citation (search report)
• [A] US 5163561 A 19921117 - FITZGERALD LINDA M [US]
• [A] WO 2004012593 A1 20040212 - INSPEKTOR RES SYSTEMS B V [NL], et al
• [A] US 2007111168 A1 20070517 - RIBAL L CLAUDIO [CL]
• [A] WO 9417691 A2 19940818 - LITTLE ACORN VENTURES INC [US], et al
• [A] EP 0095511 A1 19831207 - HINZ LABOR FACHLABORATORIUM FU [DE]

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 MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2156765 A1 20100224; EP 2156765 A4 20100303; EP 2156765 B1 20110803; AT E518445 T1 20110815; CN 101541206 A 20090923; JP 2008295994 A 20081211; JP 4075004 B1 20080416; US 2010043161 A1 20100225; WO 2008149503 A1 20081211

DOCDB simple family (application)
EP 08763903 A 20080526; AT 08763903 T 20080526; CN 200880000308 A 20080526; JP 2007171183 A 20070604; JP 2008001303 W 20080526; US 61230709 A 20091104