

Title (en)
APPARATUS AND METHOD FOR BOOSTING SOUND IN A DENTA-MANDIBULAR SOUND-TRANSMITTING ENTERTAINMENT TOOTHBRUSH

Title (de)
VORRICHTUNG UND VERFAHREN ZUR TONVERSTÄRKUNG IN EINER TONAUSSENDENDEN UNTERHALTENDEN ZAHNBÜRSTE DES TYPUS DENTA-MANDIBULAR

Title (fr)
DISPOSITIF ET PROCEDE POUR AMPLIFIER LE SON DANS UNE BROSSA A DENTS RECREATIVE A EMISSION SONORE DENTO-MANDIBULAIRE

Publication
EP 1820283 A4 20100303 (EN)

Application
EP 05826081 A 20051130

Priority
• US 2005043245 W 20051130
• US 63439804 P 20041208
• US 65279105 P 20050214

Abstract (en)
[origin: WO2006062778A2] A device and method for transmitting sound waves between a signal source and a user's ears, wherein the sound waves bypass the air. The sound waves are conducted by the user's teeth and bones to the user's ears, where they are perceived as sound. Sound-transmitting toothbrushes and the like are described to transmit and/ or conduct sound to the user's ear, while the user is brushing his or her teeth. The toothbrush head and a signal source are configured to produce sound waves for transmission through the toothbrush head to the user's mouth, and a tension controller is configured to control the volume of the sound waves based on the pressure applied by the toothbrush head. The signal source may produce sound waves directly or with the assistance of a transducer. The signal source may be replaceable, connect to a replaceable cartridge, or connect to an adaptor capable of downloading data to allow the signal source data to be replaceable. The tension controller may include gap spacing between the transducer coil and transducer plate. The tension controller may also include a boost switch configured as a bypass switch, activation signal, or force sensor.

IPC 8 full level
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CPC (source: EP)
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Citation (search report)
• [Y] US 6115477 A 20000905 - FILO ANDREW S [US], et al
• [Y] DE 3935554 A1 19910502 - AUGUSTIN HANS ULRICH [DE]
• [A] US 4341230 A 19820727 - SIAHOU JOSEPH
• See references of WO 2006062778A2

Designated contracting state (EPC)
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