

Title (en)

Device for applying high-frequency vibrations to hair for removing same

Title (de)

VORRICHTUNG ZUM AUFBRINGEN VON HOCHFREQUENZVIBRATIONEN AUF HAAR ZUR HAARENTFERNUNG

Title (fr)

Dispositif destiné à appliquer des vibrations haute fréquence à un poil afin de le retirer

Publication

**EP 2328436 A2 20110608 (EN)**

Application

**EP 09762170 A 20090609**

Priority

- IL 2009000574 W 20090609
- US 12917208 P 20080609

Abstract (en)

[origin: WO2009150645A2] A device for applying vibrations to hair rooted in a body, includes: a pair of tongs having hair-gripping ends capable of being driven into high-frequency vibrations with respect to each other; and a transducer coupled to at least one of the tongs for converting an AC voltage to mechanical vibrations for driving the hair-gripping end into vibrations with respect to generate sufficient heat within the body to facilitate removal of the unwanted hair. The transducer is preferably a piezoelectric element which vibrates the hair at a frequency of 100-500 KHz, preferably 100-350 KHz, and produces a displacement of 5-20 microns.

IPC 8 full level

**A45D 26/00** (2006.01); **A61B 18/14** (2006.01)

CPC (source: EP US)

**A45D 26/00** (2013.01 - EP US); **A45D 26/0076** (2013.01 - EP US); **A45D 2200/205** (2013.01 - EP US); **A45D 2200/207** (2013.01 - EP US); **A61B 2017/00752** (2013.01 - EP US)

Citation (search report)

See references of WO 2009150645A2

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 MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**WO 2009150645 A2 20091217; WO 2009150645 A3 20100204; WO 2009150645 A9 20100812; WO 2009150645 A9 20100916;**  
CN 102098941 A 20110615; CN 102098941 B 20130612; EP 2328436 A2 20110608; HK 1158906 A1 20120727; JP 2011523581 A 20110818;  
JP 5511801 B2 20140604; US 2011224692 A1 20110915

DOCDB simple family (application)

**IL 2009000574 W 20090609;** CN 200980128403 A 20090609; EP 09762170 A 20090609; HK 11113522 A 20111214;  
JP 2011513111 A 20090609; US 99677509 A 20090609