

Title (en)
ULTRASOUND HAIR DRYING AND STYLING

Title (de)
ULTRASCHALLTROCKNEN UND -FORMEN VON HAAREN

Title (fr)
SÉCHAGE ET COIFFURE DES CHEVEUX PAR ULTRASONS

Publication
EP 3207817 A1 20170823 (EN)

Application
EP 16156168 A 20160217

Priority
EP 16156168 A 20160217

Abstract (en)
An ultrasound hair care device (10) for drying and styling hair (20). An ultrasound unit (12-18) applies ultrasound to the hair (20). A hair moisture measurement unit (22) measures a moisture level of the hair (20). A control unit (24) controls the ultrasound unit (12-18) based on the moisture level. In accordance with the present invention, ultrasound is applied to the hair (20) at a first frequency not exceeding 1 MHz for drying the hair (20), and/or at a second frequency of at least 1 MHz for styling the hair (20) in dependence on the moisture level.

IPC 8 full level
A45D 1/06 (2006.01); **A45D 1/28** (2006.01)

CPC (source: EP US)
A45D 1/06 (2013.01 - EP US); **A45D 1/28** (2013.01 - EP); **A45D 7/00** (2013.01 - US); **A45D 20/12** (2013.01 - US);
A45D 2200/207 (2013.01 - EP US)

Citation (applicant)
• US 2012291797 A1 20121122 - DEGROOD MICHAEL JOHN [US], et al
• US 2012312320 A1 20121213 - HUMPHREYS JAMES D [CA], et al
• US 2006272669 A1 20061207 - IMAI TAKESHI [JP], et al

Citation (search report)
• [AD] US 2006272669 A1 20061207 - IMAI TAKESHI [JP], et al
• [A] WO 2015133993 A1 20150911 - EMPIRE TECHNOLOGY DEV LLC [US]

Cited by
CN112911963A; US11553295B2; WO2020049321A3; US11727790B2; US11816267B2; US11704983B2; US11098951B2; US11740018B2; US11842517B2; US10930123B2; US11378997B2; US11550432B2; US11886639B2; US10921890B2; US11531395B2; US11921928B2; US11276281B2; US11550395B2; US11830351B2; US10943578B2; US11360546B2; US11715453B2; US11955109B2; US11374586B2; US11742870B2; US10915177B2; US11169610B2; US11307664B2; US11714492B2; US11204644B2; US11656686B2; US11768540B2; US10911861B2; US11189140B2; US11529650B2; US11543507B2; US11624815B1; US11883847B2

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3207817 A1 20170823; CN 108697217 A 20181023; CN 108697217 B 20220812; EP 3416521 A1 20181226; EP 3416521 B1 20200408; ES 2792081 T3 20201110; PL 3416521 T3 20201102; US 2021204667 A1 20210708; WO 2017140757 A1 20170824

DOCDB simple family (application)
EP 16156168 A 20160217; CN 201780011865 A 20170216; EP 17704502 A 20170216; EP 2017053461 W 20170216; ES 17704502 T 20170216; PL 17704502 T 20170216; US 201715999589 A 20170216