

Title (en)

HAIR TREATMENT SYSTEM WITH PROXIMITY SENSORS TO DETECT SCALP OR HAIR DISTANCE AND LOCALITY

Title (de)

HAARBEHANDLUNGSSYSTEM MIT NÄHERUNGSSENSOREN ZUR ERKENNUNG VON KOPFHAUT- ODER HAARABSTAND UND LOKALITÄT

Title (fr)

SYSTÈME DE TRAITEMENT CAPILLAIRE AVEC CAPTEURS DE PROXIMITÉ POUR DÉTECTER LA DISTANCE ET L'EMPLACEMENT DU CUIR CHEVELU OU DES CHEVEUX

Publication

EP 4213682 A1 20230726 (EN)

Application

EP 21782623 A 20210917

Priority

- US 202017025598 A 20200918
- US 202017025608 A 20200918
- US 202017025619 A 20200918
- FR 2011369 A 20201105
- FR 2012073 A 20201124
- FR 2100128 A 20210107
- US 2021050966 W 20210917

Abstract (en)

[origin: WO2022061175A1] A device comprises a treatment system to treat scalp or hair; one or more sensors configured to detect at least one spatial condition selected from device contact with scalp or hair, device distance to scalp or hair, and device location in relation to scalp or hair; a controller configured to send instructions to adjust the treatment system based on the detected spatial condition of the device. A device for treating hair or scalp, the device comprises a dispenser connected to a cartridge, wherein the cartridge comprises a formulation; a plurality of tips, wherein the tips have at least one opening to dispense the formulation; and a controller that controls the amount of formulation that is dispensed from the tips. The controller can further be configured to control the dispensing of the formulation through one or more tips individually.

IPC 8 full level

A45D 19/00 (2006.01); **A45D 19/02** (2006.01); **A45D 20/12** (2006.01); **A45D 20/48** (2006.01); **A45D 34/00** (2006.01)

CPC (source: EP KR)

A45D 19/0041 (2021.01 - EP KR); **A45D 19/026** (2021.01 - EP KR); **A45D 20/48** (2013.01 - EP KR); **A45D 20/12** (2013.01 - EP); **A45D 2019/0033** (2013.01 - EP KR); **A45D 2034/005** (2013.01 - EP KR); **A45D 2200/205** (2013.01 - EP KR)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022061175 A1 20220324; EP 4213682 A1 20230726; JP 2023542004 A 20231004; KR 20230080431 A 20230607

DOCDB simple family (application)

US 2021050966 W 20210917; EP 21782623 A 20210917; JP 2023517960 A 20210917; KR 20237012473 A 20210917