

Title (en)

HAIR TREATMENT DEVICE WITH STEAM CONTAINMENT

Title (de)

HAARBEHANDLUNGSGERÄT MIT DAMPFEINSCHLUSS

Title (fr)

APPAREIL DE TRAITEMENT DE LA CHEVELURE A CONFINEMENT DE VAPEUR

Publication

**EP 4098145 A1 20221207 (FR)**

Application

**EP 22187668 A 20181221**

Priority

- FR 1763177 A 20171222
- EP 18826388 A 20181221
- EP 2018086738 W 20181221

Abstract (en)

[origin: WO2019122399A1] The invention concerns a hair treatment apparatus (1), comprising: - two arms (4, 5) that are movable relative to each other and capable of assuming a spaced-apart configuration in which a lock of hair can be inserted between them, and a closed configuration for treating the lock of hair, the arms (4, 5) being capable of being moved along the lock in this closed configuration, - two contact surfaces (12, 13) carried respectively by the two arms (4, 5), arranged opposite each other, at least one of the contact surfaces (12, 13) being heated, - at least one steam outlet (20) carried by one of the arms (4) at a distance from the corresponding contact surface (13), in order to expose the hair engaged between the arms (4, 5) to steam, - a containment structure (21) for at least partially containing the steam, carried at least partially by the other of said arms (5), - a comb (30) having teeth (31), carried by said one of the arms (4) that carries said at least one steam outlet (20), said at least one steam outlet (20) being interposed between the comb (30) and the contact surfaces (12, 13).

Abstract (fr)

L'invention concerne un appareil (1) de traitement de la chevelure, comportant :- deux bras (4, 5) mobiles l'un par rapport à l'autre, pouvant prendre une configuration écartée d'introduction d'une mèche de cheveux entre eux et une configuration rapprochée de traitement de la mèche de cheveux, les bras (4, 5) étant déplaçables dans cette configuration rapprochée le long de la mèche,- deux surfaces de contact (12, 13) portées respectivement par les deux bras (4, 5), disposées en vis-à-vis, l'une au moins des surfaces de contact (12, 13) étant chauffante,- au moins une sortie de vapeur (20) portée par l'un des bras (4) à distance de la surface de contact (13) correspondante, pour exposer à la vapeur les cheveux engagés entre les bras (4, 5),- une structure de confinement (21), permettant un confinement au moins partiel de la vapeur, portée au moins en partie par l'autre desdits bras (5),

IPC 8 full level

**A45D 1/00** (2006.01)

CPC (source: CN EP US)

**A45D 1/00** (2013.01 - EP); **A45D 1/04** (2013.01 - CN US); **A45D 1/08** (2013.01 - CN); **A45D 1/18** (2013.01 - CN US);  
**A45D 2/001** (2013.01 - CN); **A45D 2/002** (2013.01 - CN); **A45D 2/367** (2013.01 - CN); **A45D 7/02** (2013.01 - CN); **A45D 2/002** (2013.01 - US);  
**A45D 2001/008** (2013.01 - CN EP US)

Citation (applicant)

- EP 0659395 A1 19950628 - OREAL [FR]
- EP 0659393 A1 19950628 - OREAL [FR]
- EP 0659396 A1 19950628 - OREAL [FR]
- EP 0659397 A1 19950628 - OREAL [FR]
- US 2004000319 A1 20040101 - CARBALLADA JOSE ANTONIO [US], et al
- US 2004045570 A1 20040311 - YAO ISOJI [JP]
- JP 2000157322 A 20000613 - MATSUSHITA ELECTRIC WORKS LTD
- EP 1396207 A1 20040310 - NAOMOTO KOGYO KK [JP]
- EP 1515628 A1 20050323 - MATSUSHITA ELECTRIC WORKS LTD [JP], et al
- EP 1515629 A1 20050323 - PROCTER & GAMBLE [US], et al
- EP 1516554 A1 20050323 - NAOMOTO KOGYO KK [JP]
- FR 2967017 A1 20120511 - SEB SA [FR]
- WO 200402262 A1 20040108 - MATSUSHITA ELECTRIC WORKS LTD [JP], et al
- WO 2014064660 A1 20140501 - OREAL [FR], et al
- WO 2017017158 A1 20170202 - OREAL [FR]
- FR 3020930 A1 20151120 - SEB SA [FR]
- WO 2015173507 A1 20151119 - SEB SA [FR]

Citation (search report)

- [XDI] JP 2000157322 A 20000613 - MATSUSHITA ELECTRIC WORKS LTD
- [XI] FR 3004080 A1 20141010 - SEB SA [FR]
- [A] WO 2016001583 A1 20160107 - SEB SA [FR]
- [A] EP 2944218 A1 20151118 - SEB SA [FR]

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

DOCDB simple family (publication)

**WO 2019122399 A1 20190627**; CN 109953464 A 20190702; CN 109953464 B 20230929; CN 210227225 U 20200403;  
EP 3727076 A1 20201028; EP 3727076 B1 20220907; EP 4098145 A1 20221207; ES 2927718 T3 20221110; FR 3075575 A1 20190628;  
FR 3075575 B1 20210827; JP 2021507756 A 20210225; JP 7337066 B2 20230901; RU 2020118173 A 20220124; RU 2020118173 A3 20220225;  
US 2020397110 A1 20201224

DOCDB simple family (application)

**EP 2018086738 W 20181221; CN 201811572304 A 20181221; CN 201822157921 U 20181221; EP 18826388 A 20181221;  
EP 22187668 A 20181221; ES 18826388 T 20181221; FR 1763177 A 20171222; JP 2020534320 A 20181221; RU 2020118173 A 20181221;  
US 201816956819 A 20181221**