

Title (en)
WIRE-CORE APPLICATOR WITH BEVELLED HOLLOW FIBRE BRISTLES

Title (de)
DRAHTKERNAPPLIKATOR MIT ANGESCHRÄGTEN HOHLFASERBORSTEN

Title (fr)
APPLICATEUR À ÂME EN FIL MÉTALLIQUE COMPRENANT DES POILS À FIBRES CREUSES CHANFREINÉS

Publication
EP 3174433 B1 20220504 (DE)

Application
EP 15750010 A 20150731

Priority

- DE 202014103565 U 20140731
- DE 202014103567 U 20140731
- DE 202014103564 U 20140731
- EP 2015067679 W 20150731

Abstract (en)
[origin: WO2016016433A1] With a mascara brush comprising a core made of at least two wire sections (12, 13) twisted with one another along a wire-core longitudinal axis (LD) and a set of bristles (26) made of bristles (1) formed from plastic filaments, each of said bristles being held in a clamped manner between the two wire sections (12, 13) and being formed on the free ends thereof with or without a wedge-shaped bristle tip, wherein the bristles, in particular at least partially, are formed from internally hollow filaments, a solution is provided with which the mass delivery in relation to the known applicators is improved. Same is achieved in that, in particular at least, the bristles formed on the inside in a hollow manner on the radially outward free ends have an oblique cut (3) in the form of a simple wedge and comprise a wedge-shaped bristle tip comprising at least one cut surface (4) forming a wedge.

IPC 8 full level
A46D 1/00 (2006.01); **A46B 3/18** (2006.01); **A46B 9/02** (2006.01)

CPC (source: EP US)
A46B 3/18 (2013.01 - EP US); **A46B 9/021** (2013.01 - EP US); **A46D 1/0207** (2013.01 - US); **A46D 1/023** (2013.01 - EP US); **A46D 1/0238** (2013.01 - EP US); **A46D 1/0246** (2013.01 - EP US); **A46D 1/0261** (2013.01 - EP US); **A46D 1/0276** (2013.01 - EP US); **A46B 2200/1053** (2013.01 - EP US)

Citation (examination)

- US 2004011375 A1 20040122 - DUMLER NORBERT [DE]
- JP 2008307304 A 20081225 - TOKYO PARTS KK

Citation (opposition)
Opponent : HCP Germany Cosmetic GmbH & Co. KG,

- US 2004240926 A1 20041202 - GUERET JEAN-LOUIS H [FR]
- US 6481445 B1 20021119 - MIRAGLIA LORETTA A [US]
- US 6227735 B1 20010508 - GUERET JEAN-LOUIS H [FR]
- DE 102012018466 A1 20140320 - RUSI COSMETIC GMBH & CO KG [DE]
- GB 2170996 A 19860820 - PLOUGH [US]
- DE 10003858 A1 20010802 - GEKA BRUSH GEORG KARL GMBH [DE]
- WO 03105628 A1 20031224 - CROWN CORK & SEAL TECH CORP [US], et al
- DE 29700611 U1 19970313 - KLAUS SINDEL RUSI KOSMETIK PIN [DE]
- US 4733425 A 19880329 - HARTEL FRANKLIN J [US], et al
- DE 10232589 A1 20040129 - GEKA BRUSH GMBH [DE]
- JP 2008307304 A 20081225 - TOKYO PARTS KK
- US 2010071715 A1 20100325 - BICKFORD WILLIAM R [US]
- WO 2012137134 A1 20121011 - OREAL [FR], et al
- US 1337819 A 19200420 - BRAUN WILLIAM P
- DE 202013009431 U1 20150126 - GEKA GMBH [DE]
- WO 0203832 A1 20020117 - OREAL [FR], et al
- US 5709230 A 19980120 - MIRAGLIA LORETTA A [US]

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 2016016433 A1 20160204; BR 112017001129 A2 20171114; BR 112017001131 A2 20171114; BR 112017001244 A2 20190514; EP 3174432 A1 20170607; EP 3174433 A1 20170607; EP 3174433 B1 20220504; EP 3174434 A1 20170607; EP 3174434 B1 20220105; US 10499725 B2 20191210; US 10610007 B2 20200407; US 11547202 B2 20230110; US 2017215565 A1 20170803; US 2017231377 A1 20170817; US 2017311706 A1 20171102; US 2020196743 A1 20200625; WO 2016016436 A1 20160204; WO 2016016440 A1 20160204

DOCDB simple family (application)
EP 2015067679 W 20150731; BR 112017001129 A 20150731; BR 112017001131 A 20150731; BR 112017001244 A 20150731; EP 15747443 A 20150731; EP 15750010 A 20150731; EP 15750011 A 20150731; EP 2015067694 W 20150731; EP 2015067703 W 20150731; US 201515500598 A 20150731; US 201515500667 A 20150731; US 201515500876 A 20150731; US 202016802997 A 20200227