



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
09.01.2013 Bulletin 2013/02

(51) Int Cl.:
A45D 20/12 (2006.01)

(43) Date of publication A2:
07.12.2011 Bulletin 2011/49

(21) Application number: **11168511.1**

(22) Date of filing: **01.06.2011**

(84) Designated Contracting States:
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 States:
BA ME

(30) Priority: **03.06.2010 CN 201020214615 U**
07.12.2010 CN 201020646405 U

(71) Applicant: **Yoe, Han Hian**
Guangdong 518000 (CN)

(72) Inventor: **Yoe, Han Hian**
Guangdong 518000 (CN)

(74) Representative: **Gulde Hengelhaupt Ziebig & Schneider**
Patentanwälte - Rechtsanwälte
Wallstrasse 58/59
10179 Berlin (DE)

(54) **Nozzle for blow dryer**

(57) A nozzle for mounting on a blow dryer includes a group of sleeves and a mounting base. Each of the sleeves has a hollow structure defining an air channel and a plurality of openings communicating with the air channel. The group of sleeves is lined up end to end so that the air channels within the sleeves are communicated with each other. The mounting base is constructed in

circular shape, wherein the mounting base has a plurality of retention grooves provided on an inner surface at a first end thereof for detachably engaging with an outlet of the blow dryer, wherein a second end of the mounting base is connected to a proximal end of the group of sleeves and a clipper for clipping a bundle of hair, wherein the clipper is mounted to a distal end of the group of sleeves.

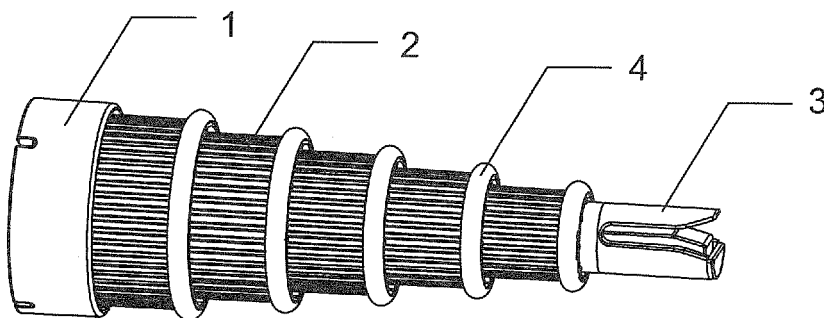


Fig. 1

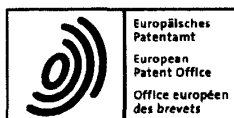


EUROPEAN SEARCH REPORT

 Application Number
 EP 11 16 8511

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	FR 2 422 358 A1 (BLITOG AG) 9 November 1979 (1979-11-09) * page 2, line 26 - page 3, line 19; figures 1,2 *	1	INV. A45D20/12
X	US 3 990 460 A (SHALVOY) 9 November 1976 (1976-11-09) * column 2, line 18 - column 3, line 32; figures 1-5 *	1	
X	US 5 626 156 A (VICORY, SR.) 6 May 1997 (1997-05-06) * the whole document *	1,2	
X	EP 1 721 541 A2 (WAHL CLIPPER CORP) 15 November 2006 (2006-11-15) * paragraphs [0012] - [0028] *	1	
X	EP 1 834 540 A1 (GANDOLFO) 19 September 2007 (2007-09-19) * page 6, line 1 - page 18, line 41; figures 1-24 *	1,2	
			TECHNICAL FIELDS SEARCHED (IPC)
X	JP 6 327514 A (MATSUSHITA) 29 November 1994 (1994-11-29) * the whole document *	1	A45D
X	WO 2007/026227 A2 (DICKSON IND CO LTD) 8 March 2007 (2007-03-08) * page 7, line 4 - page 11, line 17; figures 1-5 *	1	
A	JP 58 118710 A (GOSHIMA KIMIKO) 14 July 1983 (1983-07-14) * the whole document *	1	
		-/--	
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		7 August 2012	Williams, Mark
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

 2
 EPO FORM 1503 03.82 (P04C01)



EUROPEAN SEARCH REPORT

Application Number
EP 11 16 8511

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	DATABASE WPI Week 201042 Thomson Scientific, London, GB; AN 2010-G46691 XP002681380, & CN 201 468 342 U (YOE H) 19 May 2010 (2010-05-19) * abstract * -----	1	
			TECHNICAL FIELDS SEARCHED (IPC)
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		7 August 2012	Williams, Mark
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

 2
EPO FORM 1503 03.82 (P04C01)



Application Number

EP 11 16 8511

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

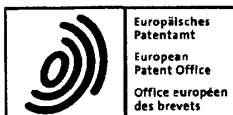
☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1, 2

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



**LACK OF UNITY OF INVENTION
SHEET B**

Application Number
EP 11 16 8511

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1, 2

A nozzle for mounting on a blow dryer, comprising: a nozzle body having a group of sleeves, wherein said group of sleeves has gradually decreasing diameters thereof and each of said sleeves is construed in stepped or spiral shape, wherein two adjacent sleeves are sleeved together defining a circular cavity, wherein said plurality of circular cavities forms an air channel; and a retainer provided along an edge of said sleeves for retaining a bundle of hair in position when said nozzle is in use.

2. claims: 3-15

A nozzle for mounting on a blow dryer, comprising: a group of sleeves, wherein each of said sleeves has a hollow structure defining an air channel and a plurality of openings communicating with said air channel, wherein said group of sleeves is lined up in an end to end manner so that said air channels within said sleeves are communicated with each other; a mounting base constructed in a circular shape, wherein said mounting base has a plurality of retention grooves provided on an inner surface at a first end thereof for detachably engaging with an outlet of said blow dryer, wherein a second end of said mounting base is connected to a proximal end of said group of sleeves; and a clipper for clipping a bundle of hair, wherein said clipper is mounted to a distal end of said group of sleeves.

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 11 16 8511

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

07-08-2012

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
FR 2422358	A1	09-11-1979	NONE	
US 3990460	A	09-11-1976	DE 2641811 A1 GB 1551130 A JP 52045440 A US 3990460 A	24-03-1977 22-08-1979 09-04-1977 09-11-1976
US 5626156	A	06-05-1997	NONE	
EP 1721541	A2	15-11-2006	AR 053382 A1 AU 2006201748 A1 CA 2544168 A1 CN 1864586 A EP 1721541 A2 JP 2006314787 A NZ 546818 A US 2006248744 A1	02-05-2007 23-11-2006 09-11-2006 22-11-2006 15-11-2006 24-11-2006 30-11-2007 09-11-2006
EP 1834540	A1	19-09-2007	AT 542449 T EP 1834540 A1	15-02-2012 19-09-2007
JP 6327514	A	29-11-1994	NONE	
WO 2007026227	A2	08-03-2007	EP 1933661 A2 WO 2007026227 A2	25-06-2008 08-03-2007
JP 58118710	A	14-07-1983	NONE	
CN 201468342	U	19-05-2010	CN 201468342 U EP 2412270 A1 US 2011198421 A1 WO 2010108414 A1	19-05-2010 01-02-2012 18-08-2011 30-09-2010