



(11) **EP 2 554 085 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**02.07.2014 Bulletin 2014/27**

(51) Int Cl.:  
**A47K 10/48 (2006.01)**

(43) Date of publication A2:  
**06.02.2013 Bulletin 2013/06**

(21) Application number: **12156383.7**

(22) Date of filing: **21.02.2012**

(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**

(72) Inventor: **Hsu, Chi-Chin**  
**224 Ruifang Industries Area, Ruifang District,  
New  
Taipei City (TW)**

(30) Priority: **04.08.2011 TW 100127677**

(74) Representative: **2K Patentanwälte Blasberg  
Kewitz & Reichel  
Partnerschaft  
Schumannstrasse 27  
60325 Frankfurt am Main (DE)**

(71) Applicant: **Hokwang Industries Co., Ltd.  
New Taipei City 224 (TW)**

(54) **Multidirectional air discharge hand drying apparatus**

(57) A multidirectional air discharge hand drying apparatus includes a high-pressure airflow generation device (20) and a casing (10). The casing (10) has a first opening (12) to receive insertion of user's hand and a hand drying compartment (11) leading to the first opening (12). The hand drying compartment (11) includes a first wall surface (111) and a second wall surface (112) facing the first wall surface (111), and at least one third wall surface (113) interposed between the first and second wall surfaces (111, 112) and faced the hand drying compartment (11). The first and second wall surfaces (111, 112) have at least one first air discharge nozzle (14). The third wall surface (113) has a second air discharge nozzle (15). The first and second air discharge nozzles (14, 15) are connected to the high-pressure airflow generation device (20) to eject high pressure airflows with respectively a first output airflow axis (a) and a second air output airflow axis (b) crossed in the hand drying compartment (11).

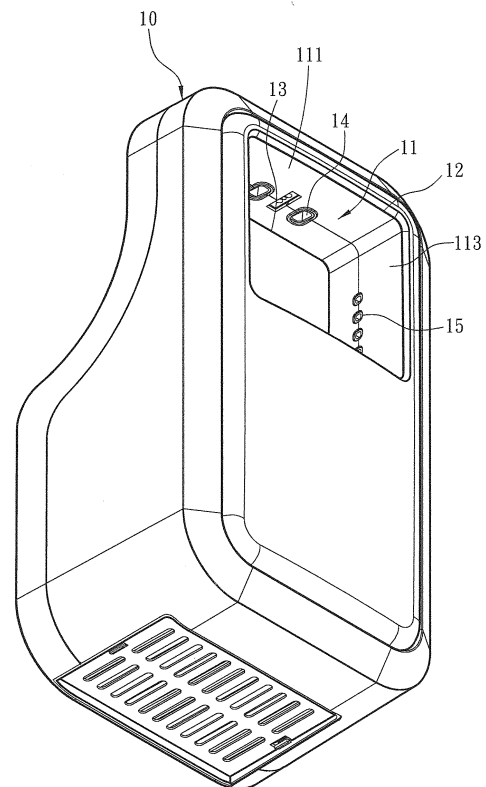


Fig. 1

**EP 2 554 085 A3**



## EUROPEAN SEARCH REPORT

Application Number  
EP 12 15 6383

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	KR 2011 0054276 A (SPACELINK CORP [KR]) 25 May 2011 (2011-05-25) * abstract; figures 1-3 *	1-11	INV. A47K10/48
X	US 3 372 490 A (HUGO LEDERMANN) 12 March 1968 (1968-03-12) * column 2, line 43 - column 3, line 2; figure *	1-11	
X	US 7 774 953 B1 (DURAN NAPOLI I [US]) 17 August 2010 (2010-08-17) * column 1, line 53 - column 3, line 47; figures 1-4 *	1-11	
			TECHNICAL FIELDS SEARCHED (IPC)
			A47K
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 28 May 2014	Examiner van de Beek-Duijker
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	

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

EP 12 15 6383

5

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.

28-05-2014

10

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR 20110054276 A	25-05-2011	JP 2011104377 A KR 20110054276 A	02-06-2011 25-05-2011
US 3372490 A	12-03-1968	NONE	
US 7774953 B1	17-08-2010	NONE	

15

20

25

30

35

40

45

50

55

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82