



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**28.01.2015 Bulletin 2015/05**

(51) Int Cl.:  
**D06F 39/10 (2006.01)**

(43) Date of publication A2:  
**22.10.2014 Bulletin 2014/43**

(21) Application number: **14001952.2**

(22) Date of filing: **09.01.2012**

(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**

(30) Priority: **21.01.2011 KR 20110006210**

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:  
**12150418.7 / 2 479 336**

(71) Applicant: **Samsung Electronics Co., Ltd.**  
**Suwon-si, Gyeonggi-do, 443-742 (KR)**

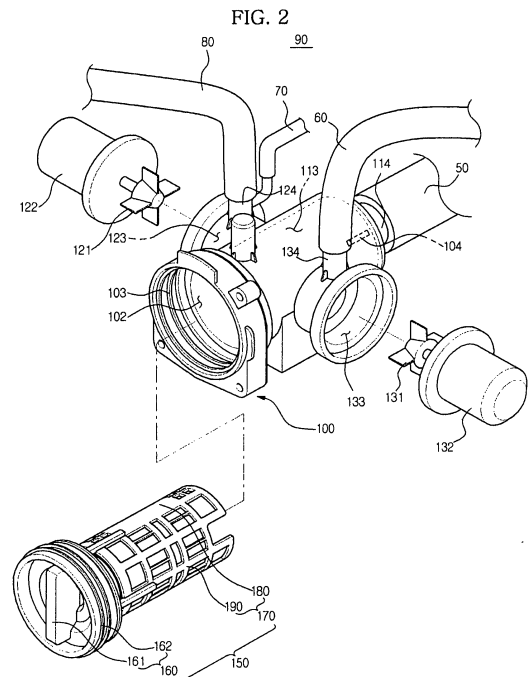
(72) Inventors:

- **KIM, Jin Doo**  
**Gyeonggi-do (KR)**
- **Jang, Sam-Young**  
**Gyeonggi-do (KR)**

(74) Representative: **Grünecker, Kinkeldey, Stockmair & Schwanhäusser**  
**Anwaltssozietät**  
**Leopoldstrasse 4**  
**80802 München (DE)**

(54) **Washing machine and pump filter thereof**

(57) A washing machine includes a tub, a pump case including an inflow chamber into which wash water in the tub flows, a circulation pump chamber provided at one side of the inflow chamber to supply wash water to the tub, and a drain pump chamber provided at the other side of the inflow chamber to discharge the wash water to the outside, and a pump filter installed in the inflow chamber to filter out foreign substances from the wash water. The pump filter includes a first filter part passing wash water flowing into the circulation pump chamber and a second filter part passing wash water flowing into the drain pump chamber. The pump filter further includes a direction adjustment groove formed to adjust positions of the first filter part and the second filter part within the inflow chamber.





## EUROPEAN SEARCH REPORT

 Application Number  
EP 14 00 1952

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	DE 100 46 349 A1 (BSH BOSCH SIEMENS HAUSGERAETE [DE]) 28 March 2002 (2002-03-28) * paragraphs [0021] - [0023]; figure 2 *	1-9	INV. D06F39/10
A	KR 2009 0006393 A (SAMSUNG ELECTRONICS CO LTD [KR]) 15 January 2009 (2009-01-15) * figure 2 *	1-9	
A	JP 2006 255318 A (SHARP KK) 28 September 2006 (2006-09-28) * abstract; figure 3 *	1,2	
A	KR 2008 0093493 A (SAMSUNG ELECTRONICS CO LTD [KR]) 22 October 2008 (2008-10-22) * figures 1,2 *	1	
A	JP 2007 181560 A (SANYO ELECTRIC CO) 19 July 2007 (2007-07-19) * abstract; figures 3,7,8 *	1,6	
A	EP 0 140 911 A1 (MUNNECKE GUSTAV ADOLF) 15 May 1985 (1985-05-15) * abstract; figure 1 *	1	TECHNICAL FIELDS SEARCHED (IPC) D06F A47L
A	DE 297 12 762 U1 (PLASET SRL [IT]) 26 February 1998 (1998-02-26) * figures 2,3 *	1	
A	EP 2 216 437 A1 (SANYO ELECTRIC CO [JP]) 11 August 2010 (2010-08-11) * figures 8,9 *	1,6	
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 22 December 2014	Examiner Kising, Axel
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 14 00 1952

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.

22-12-2014

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 10046349 A1	28-03-2002	NONE	
KR 20090006393 A	15-01-2009	NONE	
JP 2006255318 A	28-09-2006	JP 4204567 B2 JP 2006255318 A	07-01-2009 28-09-2006
KR 20080093493 A	22-10-2008	NONE	
JP 2007181560 A	19-07-2007	JP 4667247 B2 JP 2007181560 A	06-04-2011 19-07-2007
EP 0140911 A1	15-05-1985	DE 3310682 C1 EP 0140911 A1 WO 8403604 A1	29-11-1984 15-05-1985 27-09-1984
DE 29712762 U1	26-02-1998	DE 29712762 U1 ES 1037844 U FR 2751241 A3 IT T0960155 U1	26-02-1998 16-04-1998 23-01-1998 19-01-1998
EP 2216437 A1	11-08-2010	EP 2216437 A1 JP 2009131401 A TW 200940776 A WO 2009069784 A1	11-08-2010 18-06-2009 01-10-2009 04-06-2009

EPO FORM P0459

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