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## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 16 85 20 86

Classification of the application (IPC):  
D06F 39/08, D06F 39/02, D06F 37/04

Technical fields searched (IPC):  
D06F

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	KR 20100105074 A (LG ELECTRONICS INC [KR])	1-10, 13, 14
Y	29 September 2010 (2010-09-29) * paragraph [0004] - paragraph [0038]; figure 1 *	5, 6, 11, 12, 15
X	CN 102733155 A (PANASONIC HOME APPLIANCES R & D CT	1-15
Y	HANGZHOU CO LTD ET AL.) 17 October 2012 (2012-10-17) * paragraph [0001] - paragraph [0031]; figures 1-6 *	11, 12, 15
X	CN 201121262 Y (MATSUSHITA ELECTRIC IND CO LTD [JP])	1, 2, 7-10, 13, 14
Y	24 September 2008 (2008-09-24) * page 10 - page 14; figure 1 *	3-6, 11, 12, 15
A	JP 2008113977 A (HITACHI APPLIANCES INC) 22 May 2008 (2008-05-22) * abstract; figures 2,7 *	1-15
A	KR 20080100168 A (SANYO ELECTRIC CO [JP])	1-15
	14 November 2008 (2008-11-14) * abstract; figure 4 *	
Y	EP 2653601 A1 (PANASONIC CORP [JP]) 23 October 2013 (2013-10-23)	3, 4
A	* paragraph [0028]; figures 1,2 *	1, 2, 5-15

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search Munich	Date of completion of the search 03 May 2019	Examiner Spitzer, Bettina
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### CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone	P: intermediate document
Y: particularly relevant if combined with another document of the same category	T: theory or principle underlying the invention
A: technological background	E: earlier patent document, but published on, or after the filing date
O: non-written disclosure	D: document cited in the application
& : member of the same patent family, corresponding document	L: document cited for other reasons

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## ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

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EP 16 85 20 86

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 03-05-2019  
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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
KR 20100105074	A	29-09-2010	CN 101736558 A	16-06-2010
			KR 20100105074 A	29-09-2010
CN 102733155	A	17-10-2012	NONE	
CN 201121262	Y	24-09-2008	CN 101135097 A	05-03-2008
			CN 201121262 Y	24-09-2008
			JP 2008049006 A	06-03-2008
JP 2008113977	A	22-05-2008	CN 101177902 A	14-05-2008
			JP 4374375 B2	02-12-2009
			JP 2008113977 A	22-05-2008
KR 20080100168	A	14-11-2008	CN 101341285 A	07-01-2009
			EP 1967638 A1	10-09-2008
			JP 2007167391 A	05-07-2007
			KR 20080100168 A	14-11-2008
			WO 2007072656 A1	28-06-2007
EP 2653601	A1	23-10-2013	CN 103069068 A	24-04-2013
			EP 2653601 A1	23-10-2013
			JP 5799199 B2	21-10-2015
			JP 2012170690 A	10-09-2012
			WO 2012114722 A1	30-08-2012