



## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 20 77 31 59

Classification of the application (IPC):  
D06F 58/30, D06F 58/24, D06F 58/26, D06F 58/22

Technical fields searched (IPC):  
D06F

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
Y A	US 2015059202 A1 (KIM TAEWAN [KR] ET AL) 05 March 2015 (2015-03-05) * paragraph [0037] - paragraph [0185]; figures *	1-3, 6-9, 12 4, 5, 10, 11, 13-15
Y A	US 2018094376 A1 (SAMSUNG ELECTRONICS CO LTD [KR]) 05 April 2018 (2018-04-05) * paragraph [0251] - paragraph [0358]; figures *	1-3, 6-9, 12 4, 5, 10, 11, 13-15
A	EP 1411163 A2 (MATSUSHITA ELECTRIC IND CO LTD [JP]) 21 April 2004 (2004-04-21) * paragraph [0034] - paragraph [0104]; figures *	1-15
A	EP 1577433 A2 (LG ELECTRONICS INC [KR]) 21 September 2005 (2005-09-21) * paragraph [0044] - paragraph [0093]; figures *	1-15

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 11 March 2022	Examiner Sangiorgi, Massimo
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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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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 11-03-2022  
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