



# SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 21 93 67 34

**Classification of the application (IPC):**  
D06F 58/20, D06F 58/02, G10K 11/172

**Technical fields searched (IPC):**  
D06F

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
A	CN 208123094 U (WUXI LITTLE SWAN CO LTD) 20 November 2018 (2018-11-20) * abstract; figures 1, 2 *	1-15
A	US 2010175949 A1 (YAMAGUCHI ZENZO [JP] ET AL) 15 July 2010 (2010-07-15) * paragraph [0303] - paragraph [0310] * * paragraph [0321] - paragraph [0329] * * figures 10-15 *	1-15
A	EP 3199690 A1 (SAMSUNG ELECTRONICS CO LTD [KR]) 02 August 2017 (2017-08-02) * paragraph [0003] - paragraph [0006] * * paragraph [0046] - paragraph [0047]; figure 1 * * paragraph [0075] - paragraph [0081]; figures 11-14 *	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 The Hague	Date of completion of the search 19 July 2024	Examiner Sabatucci, Arianna
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## CATEGORY OF CITED DOCUMENTS

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|---|--|
| 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 19-07-2024  
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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