INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2019/084610

CLASSIFICATION OF SUBJECT MATTER H03K 17/955(2006.01)i; E05F 15/73(2015.01)i According to International Patent Classification (IPC) or to both national classification and IPC В. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) H03K; E05G; E05F; G06F Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-Internal, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 2016364079 A1 (QIU LIANG [CN] ET AL) 15 December 2016 (2016-12-15) 1-3.5-18 A paragraph [0019]; figures 2, 3 4 US 2008252303 A1 (KATO MANABU [JP] ET AL) 16 October 2008 (2008-10-16) A 7,8 figure 14 DE 102013112909 A1 (HUF HÜLSBECK & FÜRST GMBH & CO KG [DE]) 18 June 2014 1-18 A (2014-06-18)figures 1, 2 Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: later document published after the international filing date or priority date and not in conflict with the application but cited to understand the document defining the general state of the art which is not considered principle or theory underlying the invention to be of particular relevance earlier application or patent but published on or after the international document of particular relevance; the claimed invention cannot be "E' filing date considered novel or cannot be considered to involve an inventive step when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is special reason (as specified) document referring to an oral disclosure, use, exhibition or other combined with one or more other such documents, such combination being obvious to a person skilled in the art document published prior to the international filing date but later than the priority date claimed document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 10 March 2020 19 March 2020 Name and mailing address of the ISA/EP Authorized officer **European Patent Office** Loiseau, Ludovic p.b. 5818, Patentlaan 2, 2280 HV Rijswijk Netherlands Telephone No. (+31-70)340-2040 Facsimile No. (+31-70)340-3016 Telephone No.

TRANSLATION

INTERNATIONAL SEARCH REPORT Information on patent family members

International application No.

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