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## SUPPLEMENTARY PARTIAL EUROPEAN SEARCH REPORT

under Rule 62a and/or 63 of the European Patent Convention. This report shall be considered, for the purposes of subsequent proceedings, as the European search report

Application number:  
EP 16 89 07 66

### Classification of the application (IPC):

F25B 30/02, F25B 41/00, F25B 41/06, F25B 41/04, F25B 49/00, F24F 5/00,  
F24F 1/28, F25B 13/00, F25B 49/02

### Technical fields searched (IPC):

F25B

### DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	WO 2015107876 A1 (DENSO CORP [JP]) 23 July 2015 (2015-07-23)	1-7
A	* paragraphs [0028], [0055] - [0057]; figure 1 *	8-11
X	US 2012266622 A1 (INABA ATSUSHI [JP] ET AL) 25 October 2012 (2012-10-25)	1-4
A	* paragraphs [0094], [0099]; figure 1 *	5-11
A	US 2014033750 A1 (TANAKA KOSUKE [JP] ET AL) 06 February 2014 (2014-02-06)	1-11
	* paragraphs [0057] - [0060]; figure 1 *	

### INCOMPLETE SEARCH

The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC so that only a partial search (R. 62a, 63) has been carried out.

Claim(s) completely searchable:1-11

Claim(s) not searched:12-15

#### Reason for the limitation of the search:

[0001] Rule 62a EPC

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 30 November 2018	Examiner Amous, Moez
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### 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  
& : member of the same patent family, corresponding document

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

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**ANNEX TO SUPPLEMENTARY PARTIAL  
EUROPEAN SEARCH REPORT**

 Application number:  
EP 16 89 07 66

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 30-11-2018  
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO2015107876      A1	23-07-2015	JP      6119616 B2	26-04-2017
		JP      2015132428 A	23-07-2015
		WO      2015107876 A1	23-07-2015
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		CN      105570993 A	11-05-2016
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		WO      2014020904 A2	06-02-2014