



## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 18 77 80 17

**Classification of the application (IPC):**  
H02P 21/26, H02P 21/14, H02P 21/18, H02P 21/22

**Technical fields searched (IPC):**  
H02P

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	WO 2016032508 A1 (NISSAN MOTOR [JP]; WISCONSIN ALUMNI RES FOUND [US]) 03 March 2016 (2016-03-03) * paragraph [0028] - paragraph [0035]; figures 2-4 * * paragraph [0036] - paragraph [0041]; figures 5-7 * * paragraph [0049] - paragraph [0052]; figures 10,17,18 * * paragraph [0053]; figures 19-20 *	1-15
X A	US 2017019041 A1 (SUGIYAMA MAKOTO [JP] ET AL) 19 January 2017 (2017-01-19) * paragraph [0042] - paragraph [0051]; figures 1,2,10,11 *	1-5 6-15
X A	US 2010090640 A1 (MAEKAWA SARI [JP] ET AL) 15 April 2010 (2010-04-15) * paragraph [0029] - paragraph [0030]; figures 1-2 * * paragraph [0049] - paragraph [0050] * * paragraph [0052] - paragraph [0055]; figures 6-7 * * paragraph [0059] - paragraph [0069]; figures 8-9 *	1, 2, 4, 5 3, 6-15

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 30 October 2020	Examiner Landi, Matteo
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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

Application number:  
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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 30-10-2020  
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