



## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 20 96 68 95

### Classification of the application (IPC):

H02K 21/40, H02K 21/44, H02K 49/10, H02K 7/11, H02K 21/38, H02K 3/28,  
F16H 49/00

### Technical fields searched (IPC):

H02K

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	WO 2020174936 A1 (PANASONIC IP MAN CO LTD [JP])	1-3
Y	03 September 2020 (2020-09-03) * figure 3 *	4-6
X	WO 2015137392 A1 (IHI CORP [JP]; UNIV OSAKA [JP])	1-3
Y	17 September 2015 (2015-09-17) * paragraphs [0019], [0033], [0035], [0036], [0037], [0045]; figure 1 *	4-6
X	WO 2015178111 A1 (IHI CORP [JP]; UNIV OSAKA [JP])	1-3
Y	26 November 2015 (2015-11-26) * figures 1,9A *	4-6
Y	WO 2017073199 A1 (MITSUBISHI ELECTRIC CORP [JP])	4
	04 May 2017 (2017-05-04) * figures 4,5,24 *	
Y	CN 109075638 A (HITACHI AUTOMOTIVE SYSTEMS ENG LTD)	5
	21 December 2018 (2018-12-21) * figures 3A,3B,4A,4B *	
Y	US 2011101906 A1 (TAGOME MASAKI [JP]) 05 May 2011 (2011-05-05)	6
	* paragraphs [0067], [0109], [0110]; figures 1,2,4,8a *	
A	US 2011127869 A1 (ATALLAH KAIS [GB] ET AL)	3
	02 June 2011 (2011-06-02) * figure 7 *	

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 16 January 2024	Examiner Kovacsovics, Martin
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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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EP 20 96 68 95

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 16-01-2024.  
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