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SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 19 94 06 71

Classification of the application (IPC):
F24F 1/22, F25B 49/02

Technical fields searched (IPC):
F24F, F25B

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
Y	WO 2019138910 A1 (MITSUBISHI HEAVY IND THERMAL SYSTEMS LTD [JP]) 18 July 2019 (2019-07-18) * paragraphs [0020] - [0041]; figures 3-5 *	1-5
Y	JP 2014206330 A (DAIKIN IND LTD) 30 October 2014 (2014-10-30) * the whole document *	1-5
A	WO 2018062054 A1 (TOSHIBA CARRIER CORP [JP]) 05 April 2018 (2018-04-05) * paragraphs [0051] - [0100]; figures 1-4 *	1-5
A	EP 2461111 A1 (TOSHIBA CARRIER CORP [JP]) 06 June 2012 (2012-06-06) * paragraph [0031]; figure 1 *	1
A	WO 2013046725 A1 (DAIKIN IND LTD [JP]) 04 April 2013 (2013-04-04) * paragraphs [0062] - [0068]; figure 1 *	1
A	JP 2018189283 A (MITSUBISHI HEAVY IND THERMAL SYSTEMS LTD) 29 November 2018 (2018-11-29) * paragraph [0021]; figures 2,5 *	1

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 01 July 2022	Examiner Lienhard, Dominique
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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 19 94 06 71

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 01-07-2022
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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO2019138910	A1	18-07-2019	JP	2019124373 A	25-07-2019
			WO	2019138910 A1	18-07-2019
JP 2014206330	A	30-10-2014	JP	5817775 B2	18-11-2015
			JP	2014206330 A	30-10-2014
WO2018062054	A1	05-04-2018	JP	WO2018062054 A1	04-07-2019
			WO	2018062054 A1	05-04-2018
EP 2461111	A1	06-06-2012	CN	102472536 A	23-05-2012
			CN	103822394 A	28-05-2014
			CN	105650947 A	08-06-2016
			EP	2461111 A1	06-06-2012
			EP	3270068 A1	17-01-2018
			JP	5555701 B2	23-07-2014
			JP	5760049 B2	05-08-2015
			JP	6378386 B2	22-08-2018
			JP	6567745 B2	28-08-2019
			JP	6748269 B2	26-08-2020
			JP	2013231590 A	14-11-2013
			JP	2015129632 A	16-07-2015
			JP	2015187538 A	29-10-2015
			JP	2017129357 A	27-07-2017
			JP	2018185142 A	22-11-2018
			JP	2019178866 A	17-10-2019
			JP	2020180780 A	05-11-2020
			JP	2022093736 A	23-06-2022
			JP	WO2011013672 A1	07-01-2013
			KR	20120031227 A	30-03-2012
			KR	20130100223 A	09-09-2013
			MY	188565 A	22-12-2021
			US	2012125033 A1	24-05-2012
			US	2013333409 A1	19-12-2013
			WO	2011013672 A1	03-02-2011
WO2013046725	A1	04-04-2013	JP	2013079735 A	02-05-2013
			WO	2013046725 A1	04-04-2013
JP 2018189283	A	29-11-2018	NONE		