



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 20 92 33 51

Classification of the application (IPC):

H01M 4/13, H01M 4/583, B01J 19/12, H01M 4/36, H01M 10/0525, H01M 10/04, H01M 4/66, B01J 19/00, H01M 4/136, H01M 4/139, H01M 4/1397, H01M 4/58, H01M 4/62, B01J 6/00, B01J 15/00, H01M 10/052

Technical fields searched (IPC):

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 2019245203 A1 (CHO EUNKYUNG [KR] ET AL) 08 August 2019 (2019-08-08) * paragraph [0002] * * paragraph [0014] - paragraph [0017] * * paragraph [0057] - paragraph [0065] *	1-8
X	EP 3435452 A1 (LG CHEMICAL LTD [KR]; UNIV SOGANG RES FOUNDATION [KR]) 30 January 2019 (2019-01-30) * paragraphs [0002], [0009], [0013] * * paragraph [0064] - paragraph [0068] *	1-8
X	WO 2019246104 A1 (SABIC GLOBAL TECHNOLOGIES BV [NL]; ODEH IHAB NIZAR [US]) 26 December 2019 (2019-12-26) * paragraphs [0001], [0046] - [0047], [0051], [0108] - [0109], [0141] *	1-8
X	US 2019386295 A1 (ZHAMU ARUNA [US] ET AL) 19 December 2019 (2019-12-19) * paragraphs [0002], [0005], [0138] *	1-8
X	US 2014255786 A1 (OH SI HYOUNG [KR] ET AL) 11 September 2014 (2014-09-11) * paragraph [0014] * * paragraph [0062] - paragraph [0066] * * paragraph [0079] *	1-8

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 The Hague	Date of completion of the search 08 July 2024	Examiner Nierhaus, Thomas
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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:
EP 20 92 33 51

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 08-07-2024.
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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