

Title (en)  
GRAPHENE SYNTHESIS METHOD BY MICROFLUIDIZATION

Title (de)  
GRAPHEN-SYNTHESEVERFAHREN DURCH MIKROFLUIDISIERUNG

Title (fr)  
PROCÉDÉ DE SYNTHÈSE DE GRAPHÈNE PAR MICROFLUIDISATION

Publication  
**EP 3811443 A4 20220629 (EN)**

Application  
**EP 19851994 A 20190627**

Priority

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Abstract (en)  
[origin: WO2020040713A2] The present invention relates to a graphene synthesis method by microfluidization for being used in high energy capacity electrode and/or electrolyte materials in the field of electrochemical energy storage. The method comprises the steps of purchasing expandable graphite of 30 µm thickness and 300 µm diameter, sieving by a sieve with 63 µm mesh size, weighing 1 g of expandable graphite, dispersing it in 400 mL 2-propanol to prepare a suspension, conducting ultrasonic ation for 1 hour at 20 kHz frequency and 40% amplitude, pouring the suspension into the microfluidizer, and performing 4 cycles.

IPC 8 full level  
**H01M 4/04** (2006.01); **C01B 32/19** (2017.01); **H01G 11/36** (2013.01); **H01G 11/86** (2013.01); **H01M 4/02** (2006.01); **H01M 4/583** (2010.01)

CPC (source: EP)  
**C01B 32/19** (2017.07); **H01G 11/36** (2013.01); **H01G 11/86** (2013.01); **H01M 4/625** (2013.01); **H01M 10/0525** (2013.01); **Y02E 60/10** (2013.01)

Citation (search report)

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CN115084489A

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
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