

Title (en)

METHOD OF PRODUCING UNIFORM POLYMER BEADS BY VIBRATION JETTING WITH SUPERHYDROPHOBIC MEMBRANE

Title (de)

VERFAHREN ZUR HERSTELLUNG VON GLEICHMÄSSIGEN POLYMERKÜGELCHEN DURCH VIBRATIONSSTRAHLTECHNIK MIT SUPERHYDROPHOBER MEMBRAN

Title (fr)

PROCÉDÉ DE PRODUCTION DE BILLES POLYMÈRES UNIFORMES PAR PROJECTION PAR VIBRATIONS AU MOYEN D'UNE MEMBRANE SUPERHYDROPHOBE

Publication

EP 3555146 A1 20191023 (EN)

Application

EP 17835627 A 20171215

Priority

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- CN 201710096177 A 20170222
- EP 2017082976 W 20171215

Abstract (en)

[origin: EP4378963A2] Spherical polymer beads having a uniform size are prepared by polymerizing uniformly sized 5 monomer droplets formed by dispersing a polymerizable monomer phase over double-walled cylindrical cross-flow membrane into a suspension phase. A shear force is provided at a point of egression of the polymerizable monomer phase into the suspension phase, the direction of shear substantially perpendicular to the direction of egression of the monomer phase. The membrane is metallic and includes a superhydrophobic coating.

IPC 8 full level

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CPC (source: CN EP KR RU)

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B01F 33/80 (2022.01 - RU); **B01J 2/06** (2013.01 - EP KR RU); **B01J 2/18** (2013.01 - EP KR); **B29B 9/10** (2013.01 - RU);
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C25D 1/08 (2013.01 - KR); **B01D 2315/04** (2013.01 - EP); **B01D 2325/38** (2013.01 - EP); **C08J 2305/12** (2013.01 - CN)

Designated contracting state (EPC)

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BA ME

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CN 108203514 A 20180626; CN 108203514 B 20221122; EP 3555146 A1 20191023; JP 2020504776 A 20200213; JP 7106570 B2 20220726;
KR 102446737 B1 20220922; KR 20190097073 A 20190820; MX 2019007087 A 20191015; MX 2024004069 A 20240429;
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JP 2019554010 A 20171215; KR 20197018455 A 20171215; MX 2019007087 A 20171215; MX 2024004069 A 20190614;
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