

Title (en)

LOW MOLECULAR WEIGHT POLYTETRAFLUOROETHYLENE MICPOWDER AND PROCESS FOR PREPARING THE SAME

Title (de)

POLYTETRAFLUORETHYLENMIKROPULVER MIT NIEDRIGEM MOLEKULARGEWICHT UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

MICROPOUDRE DE POLYTÉTRAFLUOROÉTHYLÈNE DE FAIBLE POIDS MOLÉCULAIRE ET SON PROCÉDÉ DE PRÉPARATION

Publication

EP 4031589 A1 20220727 (EN)

Application

EP 20866024 A 20200916

Priority

- IN 201911037462 A 20190917
- IB 2020058608 W 20200916

Abstract (en)

[origin: WO2021053531A1] The present invention relates to low molecular weight polytetrafluoroethylene (PTFE) micropowder, The present invention relates to production of low molecular weight PTFE micropowder by direct polymerization technology and overcomes limitation of the melt viscosities over prior art and that is devoid of the step of irradiation or thermal degradation and complies with regulations on PFOA restriction in substances. The present invention relates to a process for preparing a low molecular weight polytetrafluoroethylene (PTFE) micropowder, comprising the steps of: (a) polymerizing Tetrafluoroethylene (TFE); (b) coagulating the particles of PTFE to increase particle size; (c) washing the particles of PTFE to remove impurities; and (d) drying the wet PTFE micropowder to remove moisture and volatiles.

IPC 8 full level

C08F 14/26 (2006.01); **C08F 2/16** (2006.01); **C08J 3/12** (2006.01)

CPC (source: EP GB KR)

C08F 2/18 (2013.01 - KR); **C08F 2/24** (2013.01 - EP GB KR); **C08F 2/28** (2013.01 - GB KR); **C08F 2/38** (2013.01 - EP); **C08F 4/34** (2013.01 - KR); **C08F 6/008** (2013.01 - EP); **C08F 6/18** (2013.01 - KR); **C08F 6/22** (2013.01 - EP); **C08F 6/24** (2013.01 - EP); **C08F 14/26** (2013.01 - EP GB KR); **C08F 114/26** (2013.01 - EP); **C08J 3/16** (2013.01 - EP); **C08J 2327/18** (2013.01 - EP)

C-Set (source: EP)

1. **C08F 14/26** + **C08F 2/24**
2. **C08F 14/26** + **C08F 2/28**
3. **C08F 6/22** + **C08L 27/18**
4. **C08F 6/008** + **C08L 27/18**
5. **C08F 6/24** + **C08L 27/18**

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2021053531 A1 20210325; CN 114450317 A 20220506; EP 4031589 A1 20220727; EP 4031589 A4 20231004; GB 202205473 D0 20220525; GB 2604463 A 20220907; GB 2604463 B 20240228; JP 2023501048 A 20230118; KR 20220065003 A 20220519

DOCDB simple family (application)

IB 2020058608 W 20200916; CN 202080064703 A 20200916; EP 20866024 A 20200916; GB 202205473 A 20200916; JP 2022516619 A 20200916; KR 20227012593 A 20200916