

Title (en)

LOW DISPERSITY POLYMERS AS A RESULT OF NEAR INFRARED LIGHT INITIATION AND AN IRON CATALYST

Title (de)

POLYMERE MIT GERINGER DISPERSITÄT DURCH INITIIERUNG MIT NAHEM INFRAROTLICHT UND EINEM EISENKATALYSATOR

Title (fr)

POLYMÈRES À FAIBLE DISPERSITÉ OBTENUS PAR AMORÇAGE À LA LUMIÈRE INFRAROUGE PROCHE ET AU MOYEN D'UN CATALYSEUR AU FER

Publication

EP 4267633 A1 20231101 (DE)

Application

EP 21843905 A 20211220

Priority

- DE 102020134606 A 20201222
- EP 2021086839 W 20211220

Abstract (en)

[origin: WO2022136292A1] The invention relates to polymers that have a dispersity of less than 1.4 and that can be obtained by irradiating a mixture of radically polymerizable monomers, cyanins as sensitizers, iron(III) compounds, alkyl bromides, and optionally ATRP starters with the aid of an NIR source which emits light in the range of approximately 700 to approximately 1200 nm.

IPC 8 full level

C08F 293/00 (2006.01); **C08F 2/46** (2006.01)

CPC (source: EP)

C08F 2/46 (2013.01); **C08F 293/005** (2013.01); **C08F 2438/01** (2013.01)

Citation (search report)

See references of WO 2022136292A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022136292 A1 20220630; CN 116601181 A 20230815; DE 102020134606 A1 20220623; EP 4267633 A1 20231101

DOCDB simple family (application)

EP 2021086839 W 20211220; CN 202180085618 A 20211220; DE 102020134606 A 20201222; EP 21843905 A 20211220