

Title (en)

METHOD FOR PRODUCING A FILM COMPRISING THERMOPLASTIC POLYMER AND INORGANIC FILLER

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER FOLIE UMFASSEND THERMOPLASTISCHES POLYMER UND ANORGANISCHEN FÜLLSTOFF

Title (fr)

PROCÉDÉ DE PRODUCTION D'UN FILM COMPRENANT UN POLYMÈRE THERMOPLASTIQUE ET UNE CHARGE INORGANIQUE

Publication

**EP 3833709 A1 20210616 (DE)**

Application

**EP 19749625 A 20190725**

Priority

- DE 102018119541 A 20180810
- EP 2019070021 W 20190725

Abstract (en)

[origin: WO2020030433A1] The invention relates to a method for producing a film comprising at least 20 wt% thermoplastic polymer and 50 to 75 wt% inorganic filler, and comprises the steps: providing the mixture, melting the mixture, producing a thin layer from the mixture, cooling the thin layer, producing a film, stretching the film in the longitudinal direction and in the transverse direction, wherein the particle size of the inorganic filler is at most 5 µm and the stretch ratio in the longitudinal direction and in the transverse direction is at least 3.5. The invention further relates to films produced by this method and to the use thereof.

IPC 8 full level

**C08J 5/18** (2006.01); **C08K 3/26** (2006.01); **C08L 23/12** (2006.01)

CPC (source: EP KR US)

**B29C 55/12** (2013.01 - KR); **C08J 5/18** (2013.01 - EP KR US); **C08K 3/013** (2018.01 - KR); **C08K 3/26** (2013.01 - EP KR US); **C08L 23/06** (2013.01 - KR); **C08L 23/12** (2013.01 - EP KR US); **C08L 23/16** (2013.01 - KR); **C08L 23/22** (2013.01 - KR); **B32B 27/327** (2013.01 - US); **B32B 2038/0028** (2013.01 - US); **B32B 2323/00** (2013.01 - US); **C08J 2323/12** (2013.01 - EP KR US); **C08J 2491/06** (2013.01 - US); **C08K 2003/262** (2013.01 - EP); **C08K 2003/265** (2013.01 - KR US); **C08K 2201/005** (2013.01 - EP KR US); **C08L 2203/16** (2013.01 - US)

C-Set (source: EP)

1. **C08K 3/26** + **C08L 23/10**
2. **C08L 23/12** + **C08L 23/0815** + **C08K 3/26**

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)

**DE 102018119541 A1 20200213**; CN 112566965 A 20210326; EP 3833709 A1 20210616; JP 2021534016 A 20211209; KR 20210042113 A 20210416; US 11976176 B2 20240507; US 2021301101 A1 20210930; WO 2020030433 A1 20200213

DOCDB simple family (application)

**DE 102018119541 A 20180810**; CN 201980052722 A 20190725; EP 19749625 A 20190725; EP 2019070021 W 20190725; JP 2021506994 A 20190725; KR 20217005092 A 20190725; US 201917267201 A 20190725