

Title (en)

METHOD FOR A MODEL-BASED OPTIMIZATION OF A FILM PRODUCT DURING A PRODUCTION PROCESS ON A FILM EXTRUSION SYSTEM

Title (de)

VERFAHREN FÜR EINE MODELLBASIERTE OPTIMIERUNG EINES FOLIENPRODUKTES BEI EINER HERSTELLUNG AUF EINER FOLIENEXTRUSIONSANLAGE

Title (fr)

PROCÉDÉ D'OPTIMISATION BASÉE SUR UN MODÈLE D'UN PRODUIT EN FILM LORS D'UN PROCESSUS DE PRODUCTION SUR UN SYSTÈME D'EXTRUSION DE FILM

Publication

**EP 4045983 A1 20220824 (DE)**

Application

**EP 20789569 A 20201008**

Priority

- DE 102019127550 A 20191014
- EP 2020078239 W 20201008

Abstract (en)

[origin: WO2021073999A1] The invention relates to a method for a model-based optimization of a film product during a production process on a film extrusion system (10) using a production model (PM) of the film extrusion system (10), having the following steps: – detecting at least two model parameters (MP) in the form of input parameters (EP) of the production model (PM) in order to predict a production situation of the film extrusion system (10) and/or at least two model parameters (MP) in the form of output parameters (AP) of the production model (PM) in order to predict a film product situation of the film extrusion system (10), – forming a parameter relationship between the detected model parameters (MP) using the production model (PM), – prioritizing at least one model parameter (MP) of the production model (PM) for the optimization process, and – changing at least one non-prioritized model parameter (MP) of the production model (PM) on the basis of the formed parameter relationship in order to optimize the prioritized model parameter (MP).

IPC 8 full level

**G05B 13/04** (2006.01); **G05B 19/418** (2006.01)

CPC (source: EP US)

**B29C 48/08** (2019.01 - US); **B29C 48/92** (2019.01 - US); **G05B 13/042** (2013.01 - EP US); **G05B 19/41885** (2013.01 - EP); **Y02P 90/02** (2015.11 - EP)

Citation (search report)

See references of WO 2021073999A1

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 102019127550 A1 20210415**; EP 4045983 A1 20220824; US 2023330909 A1 20231019; WO 2021073999 A1 20210422

DOCDB simple family (application)

**DE 102019127550 A 20191014**; EP 2020078239 W 20201008; EP 20789569 A 20201008; US 202017768917 A 20201008