

Title (en)

SYSTEM AND METHOD FOR PRODUCING A FOAMED POLYMER

Title (de)

SYSTEM UND VERFAHREN ZUR HERSTELLUNG EINES GESCHÄUMTEN POLYMERS

Title (fr)

SYSTÈME ET PROCÉDÉ POUR LA PRODUCTION D'UN POLYMÈRE EXPANSÉ

Publication

EP 3490772 A1 20190605 (DE)

Application

EP 17745711 A 20170726

Priority

- EP 16181863 A 20160729
- EP 2017068929 W 20170726

Abstract (en)

[origin: WO2018019907A1] A system for producing a foamed polymer comprises: - a first mixer (140) for mixing at least two reaction components that react with one another to obtain a reaction mixture that reacts to form a polymer, wherein at least one of the reaction components also comprises a supercritical fluid; - a foaming mould (200), which is connected to the first mixer (140), is suitable for receiving the reaction mixture and has a first volume (210) that is available for receiving the reaction mixture, wherein the first volume (210) is variable. The foaming mould (200) comprises a movable seal (300), which delimits the first volume (210) at least on one side. The system comprises a movable delimiter (310), which is arranged on the side of the seal (300) opposite from the first volume (210), is not connected to the seal (300) and the position of which can be varied by means of a positioning unit (320), wherein the positioning unit (320) is designed to carry out instructions of a control unit (400) and which can be positioned in such a way as to block or allow a movement of the seal (300) that corresponds to an enlargement of the first volume (210) in dependence on the instructions of the control unit (400); the control unit (400) is designed to transmit instructions to the positioning unit (320) in dependence on at least one parameter of a reaction mixture located in the first volume (210).

IPC 8 full level

B29C 44/58 (2006.01); **B29C 44/60** (2006.01); **B29K 75/00** (2006.01)

CPC (source: EP KR US)

B29C 44/3442 (2013.01 - KR US); **B29C 44/351** (2013.01 - KR); **B29C 44/586** (2013.01 - EP KR US); **B29C 44/60** (2013.01 - EP KR US); **C08G 18/48** (2013.01 - KR); **C08J 9/122** (2013.01 - KR); **B29K 2075/00** (2013.01 - EP KR US); **B29K 2105/04** (2013.01 - US); **C08G 2101/00** (2013.01 - KR); **C08J 2375/04** (2013.01 - KR)

Citation (search report)

See references of WO 2018019907A1

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 2018019907 A1 20180201; BR 112019001767 A2 20190507; CN 109476056 A 20190315; EP 3490772 A1 20190605; KR 20190038809 A 20190409; MX 2019001196 A 20190520; US 2019263034 A1 20190829

DOCDB simple family (application)

EP 2017068929 W 20170726; BR 112019001767 A 20170726; CN 201780047064 A 20170726; EP 17745711 A 20170726; KR 20197002348 A 20170726; MX 2019001196 A 20170726; US 201716320034 A 20170726