

Title (en)

BARREL OF A PLASTICS EXTRUDER OR PLASTICISING CYLINDER OF AN INJECTION-MOULDING MACHINE

Title (de)

PLASTIFIZIERZYLINDER EINES KUNSTSTOFFEXTRUDERS ODER EINER SPRITZGIEßMASCHINE

Title (fr)

CYLINDRE DE PLASTIFICATION D'UNE EXTRUDEUSE DE PLASTIQUE OU D'UNE MACHINE DE MOULAGE PAR INJECTION

Publication

EP 3802054 A1 20210414 (DE)

Application

EP 19722589 A 20190503

Priority

- DE 102018112939 A 20180530
- EP 2019061438 W 20190503

Abstract (en)

[origin: WO2019228752A1] The invention relates to a barrel (1) of a plastics extruder or a plasticising cylinder of an injection-moulding machine, wherein the barrel or cylinder (1) has a wall (3), wherein at least one spiral recess (4,5) is formed in the wall (3), wherein at least one heating element (7) is arranged in one recess (4). The barrel or cylinder (1) is improved by at least one cooling element (6) being arranged in another spiral recess (5), wherein the spiral recesses (4, 5) extend parallel to one another along the surface of the barrel or cylinder (1), wherein the cooling element (6) is formed as a tube, wherein the tube is or can be flowed through by a liquid cooling medium.

IPC 8 full level

B29C 48/68 (2019.01); **B29C 45/62** (2006.01); **B29C 45/74** (2006.01); **B29C 45/78** (2006.01); **B29C 48/25** (2019.01); **B29C 48/80** (2019.01); **B29C 48/875** (2019.01); **B29C 48/92** (2019.01)

CPC (source: EP US)

B29C 45/62 (2013.01 - EP US); **B29C 45/74** (2013.01 - EP US); **B29C 45/78** (2013.01 - EP); **B29C 48/2565** (2019.01 - EP); **B29C 48/68** (2019.01 - US); **B29C 48/6801** (2019.01 - EP); **B29C 48/832** (2019.01 - EP US); **B29C 48/834** (2019.01 - EP US); **B29C 48/875** (2019.01 - EP US); **B29C 48/92** (2019.01 - EP); **B29C 2948/92704** (2019.01 - EP); **B29C 2948/92895** (2019.01 - EP)

Citation (search report)

See references of WO 2019228752A1

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 102018112939 A1 20191205; EP 3802054 A1 20210414; JP 2021526470 A 20211007; US 2021078230 A1 20210318; WO 2019228752 A1 20191205

DOCDB simple family (application)

DE 102018112939 A 20180530; EP 19722589 A 20190503; EP 2019061438 W 20190503; JP 2021517114 A 20190503; US 202017106886 A 20201130