

Title (en)
METHOD AND SYSTEM FOR ADJUSTING A SLOT DIE USED FOR MAKING AN EXTRUDED ARTICLE

Title (de)
VERFAHREN UND SYSTEM ZUR EINSTELLUNG EINER SCHLITZDÜSE ZUR HERSTELLUNG EINES EXTRUDIERTEN ARTIKELS

Title (fr)
PROCÉDÉ ET SYSTÈME DE RÉGLAGE DE FILIÈRE EN FORME DE FENTE UTILISÉE POUR LA FABRICATION D'UN ARTICLE EXTRUDÉ

Publication
EP 4259413 A1 20231018 (EN)

Application
EP 20828125 A 20201209

Priority
IB 2020061685 W 20201209

Abstract (en)
[origin: WO2022123294A1] A method of adjusting a slot die is provided, the slot die having an applicator slot extending across a width of the slot die, wherein the slot die comprises opposed first and second slot die surfaces, and wherein the applicator slot is in fluid communication with a fluid flow path through the slot die. The slot die includes first and second adjustment mechanisms operatively coupled to the first and second slot die surfaces, respectively. The method includes assigning a target setting for the first adjustment mechanism based on a pre-selected cross-web profile for an extrudate; with that target setting, determining a slot height profile corresponding to a plurality of locations along the opposed first and second slot die surfaces; predicting, with a controller, a set of discrete settings from a plurality of discrete settings based on both the slot height profile and the pre-selected cross-web profile, the prediction based on a known correlation between the set of discrete settings and a cross-web profile of the extrudate; and setting a position for each of a plurality of actuators coupled to the second adjustment mechanism according to the predicted set of discrete settings.

IPC 8 full level
B29C 48/31 (2019.01); **B05C 5/02** (2006.01); **B29C 48/08** (2019.01); **B29C 48/92** (2019.01)

CPC (source: EP)
B05C 5/0262 (2013.01); **B29C 48/08** (2019.02); **B29C 48/31** (2019.02); **B29C 48/92** (2019.02); **B29C 2948/92133** (2019.02); **B29C 2948/92152** (2019.02); **B29C 2948/92628** (2019.02); **B29C 2948/92647** (2019.02); **B29C 2948/92904** (2019.02); **B29C 2948/92942** (2019.02)

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 2022123294 A1 20220616; EP 4259413 A1 20231018; JP 2023553099 A 20231220; MX 2023006848 A 20230814

DOCDB simple family (application)
IB 2020061685 W 20201209; EP 20828125 A 20201209; JP 2023534893 A 20201209; MX 2023006848 A 20201209