

Title (en)

PROCESS FOR ADDING SURFACE ENHANCEMENT TO THERMOPLASTIC ARTICLE

Title (de)

VERFAHREN ZUM HINZUFÜGEN VON OBERFLÄCHENVERBESSERUNG ZU EINEM THERMOPLASTISCHEN ARTIKEL

Title (fr)

PROCÉDÉ POUR AJOUTER UNE AMÉLIORATION DE SURFACE À UN ARTICLE THERMOPLASTIQUE

Publication

**EP 4107224 A4 20240529 (EN)**

Application

**EP 21757525 A 20210218**

Priority

- US 202062977963 P 20200218
- US 2021018503 W 20210218

Abstract (en)

[origin: WO2021168067A1] A process for modifying a surface geometry of a thermoplastic part using a tunnel apparatus operated by a controller is provided. The process includes the steps of: programming the controller with a surface modification profile; moving a thermoplastic part relative to a heat source to form a melted surface on the thermoplastic part; and depositing an additive material onto the melted surface according to the surface modification profile.

IPC 8 full level

**B29C 59/04** (2006.01); **B29C 33/38** (2006.01); **B29C 33/42** (2006.01); **B29C 35/02** (2006.01); **B29C 35/08** (2006.01); **B29C 45/37** (2006.01); **B29C 59/02** (2006.01); **C08L 69/00** (2006.01); **C08L 83/10** (2006.01); **B29L 31/00** (2006.01)

CPC (source: EP)

**B29C 33/3842** (2013.01); **B29C 33/424** (2013.01); **B29C 35/0266** (2013.01); **B29C 45/372** (2013.01); **B29C 59/02** (2013.01); **B29C 59/046** (2013.01); **B29C 2035/0822** (2013.01); **B29C 2059/028** (2013.01); **B29K 2995/0072** (2013.01); **B29L 2031/7178** (2013.01)

Citation (search report)

- [X] EP 3463805 A1 20190410 - FLEXINNOVA KFT [HU], et al
- [X] JP H11115057 A 19990427 - SANKO CO LTD
- [X] DE 4207210 A1 19930909 - MAUSER WERKE GMBH [DE]
- See also references of WO 2021168067A1

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

DOCDB simple family (publication)

**WO 2021168067 A1 20210826**; CA 3168508 A1 20210826; CN 115397917 A 20221125; EP 4107224 A1 20221228; EP 4107224 A4 20240529

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