

Title (en)

DISPENSING HEAD AND METHOD FOR DISPENSING SOLIDIFYING MATERIAL

Title (de)

AUSTRAGSKOPF UND VERFAHREN ZUM AUSTRAG VON ERSTARRENDEM MATERIAL

Title (fr)

TETE DE DISTRIBUTION ET PROCEDE PERMETTANT DE DISTRIBUER UN MATERIAU DE SOLIDIFICATION

Publication

**EP 1286787 A1 20030305 (EN)**

Application

**EP 00931732 A 20000519**

Priority

NL 0000345 W 20000519

Abstract (en)

[origin: WO0189814A1] The invention generally relates to improvements in Fused Deposition Modelling (FDM), such that the properties of the model can correspond more closely to the original object on which it was modelled or, in case of a prototype, to the end product. By varying the cross section of a road of deposited material in shape and/or area, the resolution of the product can be increased, without significantly increasing the total time needed to manufacture the product. The invention further relates to a dispensing head having a flat smear surface, and means for cleaning the smear surface. Further improvements to the FDM technique are also disclosed.

IPC 1-7

**B05C 17/005**; B29C 67/00; B29C 41/36

IPC 8 full level

**B05D 1/26** (2006.01); **B05B 1/24** (2006.01); **B05C 5/00** (2006.01); **B05C 9/14** (2006.01); **B05C 17/005** (2006.01); **B05D 1/36** (2006.01); **B05D 5/06** (2006.01); **B29C 41/36** (2006.01); **B29C 67/00** (2006.01)

CPC (source: EP US)

**B05C 17/00523** (2013.01 - EP); **B29C 41/36** (2013.01 - EP US); **B29C 64/106** (2017.07 - EP); **B29C 64/118** (2017.07 - EP US); **B29C 64/40** (2017.07 - EP); **B33Y 10/00** (2014.12 - EP US); **B33Y 30/00** (2014.12 - EP US)

Citation (search report)

See references of WO 0189714A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 0189814 A1 20011129**; AT E281924 T1 20041115; AU 4956200 A 20011203; AU 7458900 A 20011203; CA 2411022 A1 20011129; CA 2411025 A1 20011129; DE 60015813 D1 20041216; EP 1286787 A1 20030305; EP 1286822 A1 20030305; EP 1286822 B1 20041110; JP 2003534121 A 20031118; JP 2003534159 A 20031118; WO 0189714 A1 20011129

DOCDB simple family (application)

**NL 0000630 W 20000907**; AT 00963138 T 20000907; AU 4956200 A 20000519; AU 7458900 A 20000907; CA 2411022 A 20000519; CA 2411025 A 20000907; DE 60015813 T 20000907; EP 00931732 A 20000519; EP 00963138 A 20000907; JP 2001585943 A 20000519; JP 2001586034 A 20000907; NL 0000345 W 20000519