

Title (en)

METHOD AND DEVICE FOR THE PRODUCTION OF INJECTION MOULDED PARTS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON SPRITZGIESSTEILEN

Title (fr)

PROCEDE ET DISPOSITIF POUR FABRIQUER DES PIECES MOULEES PAR INJECTION

Publication

EP 1594670 A1 20051116 (DE)

Application

EP 03720071 A 20030519

Priority

- CH 0300317 W 20030519
- CH 2642003 A 20030220

Abstract (en)

[origin: WO2004073953A1] The invention relates to a method and device for the production of injection moulded parts, especially preforms, in an injection molding method. The raw material and the additives are fed to a plasticizing worm (4) which injects pressurized plastic melt into the cavities of an injection mould (7,8) and the injection molded parts are removed from the moulds after cooling has occurred. According to the invention, the additives, especially AA blockers or coloring, are added directly to the worm cylinder in liquid form in a dosed manner after the raw material has been inputted. The invention relates more specifically to the injection molding of preforms for the production of PET bottles. One advantage of the invention is that it enables the acetaldehyde content to be reduced by 50 %, the dosing time can also be reduced significantly and said dosing can be stabilized in a significant manner.

IPC 1-7

B29C 45/18

IPC 8 full level

B29C 45/18 (2006.01)

CPC (source: EP US)

B29C 45/1816 (2013.01 - EP US); **B29K 2067/00** (2013.01 - EP US); **B29K 2105/0002** (2013.01 - EP US); **B29K 2105/253** (2013.01 - EP US)

Citation (search report)

See references of WO 2004073953A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004073953 A1 20040902; AU 2003223820 A1 20040909; EP 1594670 A1 20051116; US 2007001344 A1 20070104

DOCDB simple family (application)

CH 0300317 W 20030519; AU 2003223820 A 20030519; EP 03720071 A 20030519; US 54615603 A 20030519