Title (en)

SHAPING METHOD FOR PRODUCING SHAPED BODIES WITH AT LEAST ONE SURFACE THAT HAS SELF-CLEANING PROPERTIES, AND SHAPED BODIES PRODUCED ACCORDING TO THIS METHOD

Title (de)

FORMGEBUNGSVERFAHREN ZUR HERSTELLUNG VON FORMK RPERN MIT ZUM INDEST EINER OBERFL CHE, DIE SELBSTREINIGENDE EIGENSCHAFTEN AUFWEIST SOWIE MIT DIESEM VERFAHREN HERGESTELLTE FORMK RPER

Title (fr)

PROCEDE DE FORMAGE POUR PRODUIRE DES CORPS MOULES QUI PRESENTENT AU MOINS UNE SURFACE DOTEE DE PROPRIETES AUTONETTOYANTES, ET CORPS MOULES PRODUITS GRACE A CE PROCEDE

Publication

EP 1492633 A1 20050105 (DE)

Application

EP 03743798 A 20030203

Priority

- DE 10210666 A 20020312
- EP 0301028 W 20030203

Abstract (en)

[origin: WO03076090A1] The invention relates to shaping methods for producing shaped bodies with at least one surface (X), which has self-cleaning properties and elevations formed by microparticles (P), by thermally shaping materials containing organic compounds by means of a shaping tool, and additionally relates to shaped bodies produced in this manner. According to the inventive method, surfaces having self-cleaning properties are produced by applying microparticles to the inner surfaces of the shaping tool before the thermal shaping, whereupon the shaping is carried out during which the microparticles are pressed into and anchored in the surface of the shaped body that is not yet solidified. The inventive method can be used in thermal shaping methods selected among blow molding, extrusion blow molding, extrusion stretch blow molding, injection blow molding, injection stretch blow molding, thermoforming, stretch forming using negative pressure, stretch forming using positive pressure, and rotational thermoforming. This method is suited for producing three-dimensional objects such as bottles, housing parts, barrels and many other objects.

IPC 1-7

B08B 17/06; B29C 70/64

IPC 8 full level

B08B 17/02 (2006.01); **B08B 17/06** (2006.01); **B29C 49/20** (2006.01); **B29C 51/12** (2006.01); **B29C 70/64** (2006.01); **B65D 1/00** (2006.01); B29K 105/16 (2006.01)

CPC (source: EP US)

B08B 17/06 (2013.01 - EP US); **B08B 17/065** (2013.01 - EP US); **B29C 70/64** (2013.01 - EP US); B29C 2059/023 (2013.01 - EP US); B29C 2059/028 (2013.01 - EP US); Y10T 428/24372 (2015.01 - EP US)

Citation (search report)

See references of WO 03076090A1

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 SE SI SK TR

DOCDB simple family (publication)

WO 03076090 A1 20030918; AU 2003210199 A1 20030922; AU 2003210199 B2 20080619; CA 2478834 A1 20030918; DE 10210666 A1 20031002; EP 1492633 A1 20050105; JP 2005526636 A 20050908; JP 4334356 B2 20090930; US 2005112326 A1 20050526

DOCDB simple family (application)

EP 0301028 W 20030203; AU 2003210199 A 20030203; CA 2478834 A 20030203; DE 10210666 A 20020312; EP 03743798 A 20030203; JP 2003574349 A 20030203; US 50699304 A 20040909