Title (en)
PRIMARY SHAPING METHOD FOR A COMPONENT COMPRISING A MICROSTRUCTURED FUNCTIONAL ELEMENT

Title (de)
FORMVERFAHREN FÜR EIN BAUTEIL MIT MIKROSTRUKTUR-FUNKTIONSELEMENT

Title (fr)
PROCEDE DE TRANSFORMATION PRIMAIRE D'UN COMPOSANT AYANT UN ELEMENT FONCTIONNEL A MICROSTRUCTURE

Publication
EP 1673186 A2 20060628 (DE)

Application
EP 04723507 A 20040326

Priority
• DE 2004000638 W 20040326
• DE 10314373 A 20030328

Abstract (en)

[origin: WO2004087350A2] The invention relates to a primary shaping method for a component comprising at least one microstructured functional element, which is configured intentionally with a defined structure, in relief, at a defined point on the surface of the component in order to specifically fulfil a function. Said element has a characteristic dimension in the micrometer range in at least one spatial direction. The component is shaped from a substantially metallic material using a mould. The aim of the invention is to simplify and accelerate a primary shaping method of this type, making it more cost-effective and attractive for mass-production and use on a large scale, thus opening new avenues of application. To achieve this, at least one functional element is formed in a negative impression that is configured on the surface of the mould. The invention also relates to a mould, a core, a core box, a model, an original form and a master pattern for carrying out said primary shaping method.

IPC 1-7
B22C 9/00

IPC 8 full level
B22C 7/02 (2006.01); **B22C 7/06** (2006.01); **B22C 9/04** (2006.01); **B22C 9/10** (2006.01)

CPC (source: EP US)
B22C 7/02 (2013.01 - EP US); **B22C 7/06** (2013.01 - EP US); **B22C 9/04** (2013.01 - EP US); **B22C 9/10** (2013.01 - EP US); B33Y 80/00 (2014.12 - EP US)

Citation (search report)
See references of WO 2004087350A2

Citation (examination)
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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 PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 10314373 A1 20041007; DE 112004000620 D2 20051222; EP 1673186 A2 20060628; JP 2006521207 A 20060921; US 2006162896 A1 20060727; US 2010132847 A1 20100603; US 7681627 B2 20100323; WO 2004087350 A2 20041014; WO 2004087350 A3 20041202

DOCDB simple family (application)
DE 10314373 A 20030328; DE 112004000620 T 20040326; DE 2004000638 W 20040326; EP 04723507 A 20040326; JP 2006504275 A 20040326; US 23818405 A 20050928; US 69930310 A 20100203