

Title (en)  
MOULD CORE OF AN INJECTION MOULDING TOOL

Title (de)  
FORMKERN EINES SPRITZGIESSWERKZEUGS

Title (fr)  
NOYAU D'UN MOULE POUR INJECTION

Publication  
**EP 1526958 A1 20050504 (DE)**

Application  
**EP 03735314 A 20030520**

Priority  
• DE 0301630 W 20030520  
• DE 10236522 A 20020809

Abstract (en)  
[origin: DE10236522A1] The hollow shell core(1) houses an internal cooling tube(5) which forms a gap with the inner surface(4) of the core and is coaxial with the latter over its entire length. At the front end there is an outlet(9) for coolant. Cooling grooves(11) on the inner surface of the core run transverse to the central axis of the core. Cooling grooves(11) have a pointed and/or rounded cross-section and form a helical path along the inside of the core. The grooves extend over the surface area of the core on which a plastic molding is injected. The cooling tube outlet(9) has one or more cut-outs(13) extending along the central axis.

IPC 1-7  
**B29C 45/73**

IPC 8 full level  
**A47G 9/06** (2006.01); **A62B 3/00** (2006.01); **A62B 99/00** (2009.01); **B29C 45/73** (2006.01)

CPC (source: EP US)  
**A47G 9/064** (2013.01 - EP US); **A62B 3/00** (2013.01 - EP US); **A62B 99/00** (2013.01 - EP US); **B29C 45/7312** (2013.01 - EP US); **B29C 2045/7362** (2013.01 - EP US); **B29C 2949/0811** (2022.05 - EP US); **B29K 2105/253** (2013.01 - EP US)

Citation (search report)  
See references of WO 2004018180A1

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)  
**DE 10236522 A1 20040219**; AU 2003236805 A1 20040311; BR 0313544 A 20050621; CA 2493235 A1 20040304; CN 1700975 A 20051123; DE 20321175 U1 20060309; DE 3735314 A1 19890427; EP 1526958 A1 20050504; MX PA05001385 A 20050603; US 2006121150 A1 20060608; WO 2004018180 A1 20040304

DOCDB simple family (application)  
**DE 10236522 A 20020809**; AU 2003236805 A 20030520; BR 0313544 A 20030520; CA 2493235 A 20030520; CN 03818804 A 20030520; DE 0301630 W 20030520; DE 20321175 U 20030520; DE 3735314 A 19871019; EP 03735314 A 20030520; MX PA05001385 A 20030520; US 52431205 A 20051005