

Title (en)

Piston with optimum cooling effectiveness for cold-chamber die-casting systems

Title (de)

Kolben mit optimaler Kühlwirkung für Kaltkammerdruckgussysteme

Title (fr)

Piston avec effectivité de refroidissement optimale pour systèmes de coulée sous pression de chambre froide

Publication

EP 2796226 A1 20141029 (EN)

Application

EP 14468003 A 20140424

Priority

SI 201300101 A 20130424

Abstract (en)

Invention relates to a piston for die casting comprising a piston body, which is a single-element object, and a thermal regulation system integrated into or built inside the piston body, wherein thermal regulation system includes a passageway enabling flow of fluid for temperature regulation of the piston. There are no limitations on the passageway spatial position within physical boundaries of the piston body. Innovative solution enables optimization of the piston cooling effectiveness throughout the casting cycle. The proposed piston with integrated cooling is generally produced as a single-element product utilizing a particular manufacturing technology. Based on the piston design simplicity the invention also assures its cost-effective production.

IPC 8 full level

B22D 17/20 (2006.01)

CPC (source: EP)

B22D 17/203 (2013.01); **B22D 17/2038** (2013.01)

Citation (applicant)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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