

Title (en)
PROCESS AND DEVICE FOR ISOSTATIC LOW-PRESSURE CASTING

Publication
EP 0206967 B1 19890614 (FR)

Application
EP 86450013 A 19860617

Priority
FR 8509423 A 19850618

Abstract (en)
[origin: US4726414A] In this low-pressure casting process a mold is filled from the bottom with a liquid metal or alloy contained in a hermetically sealed furnace. The metal or alloy is forced into the mold through an injection tube by a pressurized fluid. A crucible containing the metal or alloy in the furnace is separated from electrical heating elements and thermally insulative parts by a sealed metal inner jacket supporting the crucible. Fluid is fed from the side of the inner jacket opposite the crucible throughout the casting operation, until the cast part has solidified. The pressure of this fluid is varied according to the pressure above the surface of the metal or alloy in the crucible, so as to maintain a pressure balance at all times between the inside and the outside of the inner jacket.

IPC 1-7
B22D 18/04

IPC 8 full level
B22D 18/04 (2006.01)

CPC (source: EP US)
B22D 18/04 (2013.01 - EP US)

Cited by
DE102019209389A1; US11826820B2

Designated contracting state (EPC)
DE GB IT

DOCDB simple family (publication)
EP 0206967 A1 19861230; EP 0206967 B1 19890614; CA 1286475 C 19910723; DE 3663893 D1 19890720; FR 2583321 A1 19861219; FR 2583321 B1 19870918; JP S6213252 A 19870122; US 4726414 A 19880223

DOCDB simple family (application)
EP 86450013 A 19860617; CA 511740 A 19860617; DE 3663893 T 19860617; FR 8509423 A 19850618; JP 14244786 A 19860618; US 87284986 A 19860611