

Title (en)

Piston, especially for a pressure die casting apparatus

Title (de)

Kolben, insbesondere für eine Druckgusspresse

Title (fr)

Piston, notamment pour un appareil de coulée sous pression

Publication

EP 0423413 B1 19970402 (DE)

Application

EP 90102606 A 19900209

Priority

DE 3934778 A 19891018

Abstract (en)

[origin: US5048592A] A plunger for forcing molten aluminum or brass out of a casting cylinder of a diecasting machine includes a cap which is screwed via an internal thread onto an external thread of a supporting body and is made of a material, in particular a copper alloy, which has a greater coefficient of thermal expansion than the material of the cylinder, in particular steel, and the material of the supporting body, in particular steel. An inner cover face of the cap bears against a front face of the supporting body and, with its internal thread, is screwed thermally onto the external thread of the supporting body, and in addition, is preferably shrunk on thermally.

IPC 1-7

B22D 17/20

IPC 8 full level

B22D 17/20 (2006.01)

CPC (source: EP US)

B22D 17/203 (2013.01 - EP US)

Cited by

CN104625012A; EP0901852A1; EP0525229A1; US5233912A; DE102022114210A1; WO2010084454A1; US9550233B2; EP2554296A2; DE102011052446A1; DE202010008596U1; EP2431112A1; US9829108B2; WO03074214A1; WO03074211A3

Designated contracting state (EPC)

CH DE ES FR GB IT LI SE

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US 5048592 A 19910917; DE 59010692 D1 19970507; EP 0423413 A2 19910424; EP 0423413 A3 19930217; EP 0423413 B1 19970402; ES 2102354 T3 19970801

DOCDB simple family (application)

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