

Title (en)

Device for transporting a molten metal composition by high pressure and cooling the piston for a vertical pressure die casting machine.

Title (de)

Vorrichtung zum Transport einer metallischen Schmelzzusammensetzung mittels gekühlten Kolbens unter starkem Druck für eine vertikale Druckgiessmaschine.

Title (fr)

Dispositif de transfert à piston refroidi d'une composition métallique en fusion sur une presse verticale de moulage à forte pression.

Publication

**EP 0344042 A1 19891129 (FR)**

Application

**EP 89401324 A 19890512**

Priority

FR 8807020 A 19880526

Abstract (en)

The invention relates to a device for transporting a molten metal composition on a vertical pressure die-casting machine. This device consists of an upper module in which a mould (7) can be placed, and of a lower module comprising a feeding device and a cooled piston (4) which moves vertically to ensure the compression of the metal in the mould. The piston (4) has a preferred cooling zone (18) located at the periphery of its front wall (16), this piston being able to slide with a predetermined play inside the feeding device containing the metal to be compressed. <IMAGE>

IPC 1-7

**B22D 17/20**

IPC 8 full level

**B22D 17/20** (2006.01)

CPC (source: EP)

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

Citation (search report)

- [A] DE 3013226 A1 19811015 - NIPPON LIGHT METAL CO [JP]
- [A] DE 3323328 C1 19840503 - MAHLE GMBH
- [AD] EP 0116906 A1 19840829 - GLAS FRIEDRICH
- [AD] FR 2416754 A1 19790907 - WEINGARTEN AG MASCHF [DE]

Cited by

FR2949694A1; US5758711A; US9962761B2; WO2011030025A1; US9954214B2; US10217987B2; US11038156B2; US11283141B2; US11804640B2; US9748551B2; US10181595B2; US10283754B2; US9917293B2; US9935306B2; US10910625B2; US11942664B2

Designated contracting state (EPC)

CH DE ES GB IT LI

DOCDB simple family (publication)

**EP 0344042 A1 19891129**; **EP 0344042 B1 19920226**; DE 68900858 D1 19920402; FR 2631862 A1 19891201; FR 2631862 B1 19900810

DOCDB simple family (application)

**EP 89401324 A 19890512**; DE 68900858 T 19890512; FR 8807020 A 19880526