

Title (en)

Low pressure bottom casting process for casting metals, especially light metals

Title (de)

Verfahren zum steigenden Niederdruck-Giessen von Metall, insbesondere Leichtmetall

Title (fr)

Procédé de coulée de fond à faible pression pour la coulée de métaux, en particulier de métaux légers

Publication

**EP 0956916 B1 20040915 (DE)**

Application

**EP 99108387 A 19990429**

Priority

DE 19821419 A 19980513

Abstract (en)

[origin: EP0956916A1] An overwhelming proportion of the melt volume required for filling of the mold cavity is forced into the latter at a maximum velocity. The melt column in the riser pipe (7, 8) is sheared off, and the residual melt volume between the shearing-off point and the mold inlet (11) is forced into the mold cavity at a velocity with a negative gradient. An Independent claim is also included for an apparatus for carrying out the low pressure casting method.

IPC 1-7

**B22D 18/04**

IPC 8 full level

**B22D 18/04** (2006.01); **B22D 33/00** (2006.01); **B22D 37/00** (2006.01)

CPC (source: EP US)

**B22D 18/04** (2013.01 - EP US); **B22D 33/005** (2013.01 - EP US)

Citation (examination)

EP 0937525 A1 19990825 - GEORG FISCHER DISA AG [CH]

Cited by

CN104493136A; WO02102531A1; WO03002285A3

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**EP 0956916 A1 19991117**; **EP 0956916 B1 20040915**; AT E276062 T1 20041015; DE 19821419 A1 19991118; DE 59910485 D1 20041021; JP H11347707 A 19991221; US 6321825 B1 20011127

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**EP 99108387 A 19990429**; AT 99108387 T 19990429; DE 19821419 A 19980513; DE 59910485 T 19990429; JP 13155299 A 19990512; US 30160499 A 19990429