

Title (en)
PROCESS AND DEVICE FOR CASTING COMPONENTS

Title (de)
VERFAHREN UND VORRICHTUNG ZUM GIESSEN VON BAUTEILEN

Title (fr)
PROCEDE ET DISPOSITIFS PERMETTANT DE COULER DES ELEMENTS

Publication
EP 0656819 B1 19990310 (DE)

Application
EP 94918839 A 19940603

Priority

- DE 4318252 A 19930602
- EP 9401813 W 19940603

Abstract (en)
[origin: US5626180A] PCT No. PCT/EP94/01813 Sec. 371 Date Mar. 16, 1995 Sec. 102(e) Date Mar. 16, 1995 PCT Filed Jun. 3, 1994 PCT Pub. No. WO94/29050 PCT Pub. Date Dec. 22, 1994The invention relates to a process and devices for casting components in metal alloys on the tilt casting principle in which a quantity of melt metered for casting is spread over a large gate cross section without turbulence from a melt container of the mould (30) into the mould (31) by rotating the casting device. To prevent the formation of oxide and weak structural points, the melt is taken from a metering furnace under a protective gas in a melt container connected to the mould and taken thence into the mould also under a protective gas. The melt hardens there under increased gas pressure on the feeder region of the casting, whereby its properties such as fine-grained, dense structure, high stability under load and accurately dimensioned surfaces are considerably improved.

IPC 1-7
B22D 23/00; **B22D 27/00**; **B22D 27/13**

IPC 8 full level
B22D 45/00 (2006.01); **B22D 23/00** (2006.01); **B22D 27/00** (2006.01); **B22D 27/13** (2006.01); **F02F 1/24** (2006.01)

CPC (source: EP US)
B22D 23/006 (2013.01 - EP US); **B22D 27/003** (2013.01 - EP US); **B22D 27/13** (2013.01 - EP US); **F02F 1/24** (2013.01 - EP US)

Cited by
DE102016220240A1; DE10019309A1; EP1155763A1; DE10019309C2; CZ297589B6; US6715535B2

Designated contracting state (EPC)
AT BE DE DK ES FR GB IT NL SE

DOCDB simple family (publication)
US 5626180 A 19970506; AT E177354 T1 19990315; CZ 24695 A3 19960117; CZ 290291 B6 20020717; DE 4318252 A1 19941208; DE 59407918 D1 19990415; EP 0656819 A1 19950614; EP 0656819 B1 19990310; ES 2131199 T3 19990716; HU 217381 B 20000128; HU T68972 A 19950828; JP 2952523 B2 19990927; JP H07509664 A 19951026; WO 9429050 A2 19941222; WO 9429050 A3 19950323

DOCDB simple family (application)
US 37954495 A 19950316; AT 94918839 T 19940603; CZ 24695 A 19940603; DE 4318252 A 19930602; DE 59407918 T 19940603; EP 9401813 W 19940603; EP 94918839 A 19940603; ES 94918839 T 19940603; HU 9500291 A 19940603; JP 50128995 A 19940603