

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