

Title (en)

METHOD AND DEVICE FOR THE CONTINUOUS DEGASSING OF MOLTEN METALS

Title (de)

VERFAHREN UND VORRICHTUNG ZUM KONTINUIERLICHEN ENTGASEN VON SCHMELZFLÜSSIGEN METALLEN

Title (fr)

PROCEDE ET DISPOSITIF POUR LE DEGAZAGE CONTINU DE METAUX EN FUSION

Publication

EP 1105234 A1 20010613 (DE)

Application

EP 99944261 A 19990701

Priority

- DE 9902028 W 19990701
- DE 19831675 A 19980715

Abstract (en)

[origin: WO0003821A1] The invention relates to a method and a device for the continuous degassing of molten metals and subsequent casting of the degassed metal, according to which the molten metal is guided into a vacuum for the purpose of degasification and after degasification is transferred into a casting chamber. To make it possible notably to carry out these operations continuously and to prevent the degassed metal from coming into contact with untreated metal the invention provides for the molten metal to be transferred from a first chamber (20) via an ascension pipe (15) having an inlet opening located below the level of the metal bath into a vacuum chamber (17) serving as degasification chamber, by utilizing only the lift force resulting from the pressure differential between the vacuum chamber (17) and the first chamber (20) and no other means of transport. From the vacuum chamber the molten metal by gravity flows into a downpipe (16) whose outlet opening is below the level of the molten metal bath in the casting chamber (13) and enters said casting chamber (13).

IPC 1-7

B22D 11/10; **C22B 9/04**; **C21C 7/10**

IPC 8 full level

B22D 11/11 (2006.01); **B22D 1/00** (2006.01); **B22D 11/10** (2006.01); **B22D 11/113** (2006.01); **C21C 7/10** (2006.01); **C22B 9/04** (2006.01); **C22B 15/14** (2006.01)

CPC (source: EP US)

B22D 11/113 (2013.01 - EP US); **C21C 7/10** (2013.01 - EP US); **C22B 9/04** (2013.01 - EP US)

Citation (search report)

See references of WO 0003821A1

Cited by

AT515235A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0003821 A1 20000127; DE 59901564 D1 20020704; EP 1105234 A1 20010613; EP 1105234 B1 20020529; JP 2002520162 A 20020709; US 6454829 B1 20020924

DOCDB simple family (application)

DE 9902028 W 19990701; DE 59901564 T 19990701; EP 99944261 A 19990701; JP 2000559951 A 19990701; US 71981900 A 20001215