

Title (en)

Low pressure bottom casting device for casting liquid metals

Title (de)

Vorrichtung zum steigenden Niederdruck-Giessen von Metallschmelzen

Title (fr)

Dispositif de coulée de fond à faible pression pour la coulée de métaux fondus

Publication

**EP 0992306 B1 20031112 (DE)**

Application

**EP 99118748 A 19990923**

Priority

DE 19845389 A 19981002

Abstract (en)

[origin: US6460604B1] An apparatus for uphill low pressure casting of molten metal in sand molds conveyed in synchronized manner with a casting station located at the conveyor, a gas pressure holding furnace containing the molten metal and located at the casting station with a rising casting tube connectable to the sand molds has a device for refilling the holding furnace with molten metal. To permit a rapid casting cycle and high casting capacities, the refilling device has at least one pressure-tight melt container and a filling tube located in the holding furnace with a seal positioned outside the same. The melt container is couplable in pressure-tight manner by means of its outlet to the holding furnace filling tube. The holding furnace is connected to the melt container by means of a pneumatic pressure compensating line.

IPC 1-7

**B22D 18/04**

IPC 8 full level

**B22D 18/04** (2006.01); **B22D 46/00** (2006.01); **B22D 47/00** (2006.01)

CPC (source: EP US)

**B22D 18/04** (2013.01 - EP US)

Cited by

IT202100031076A1; CN106001502A; DE10033625A1

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)

**US 6460604 B1 20021008**; AT E253995 T1 20031115; DE 19845389 A1 20000406; DE 59907701 D1 20031218; EP 0992306 A1 20000412; EP 0992306 B1 20031112; ES 2207097 T3 20040516; JP 2000107851 A 20000418; PT 992306 E 20040331

DOCDB simple family (application)

**US 41063099 A 19991004**; AT 99118748 T 19990923; DE 19845389 A 19981002; DE 59907701 T 19990923; EP 99118748 A 19990923; ES 99118748 T 19990923; JP 28122399 A 19991001; PT 99118748 T 19990923