

Title (en)

NOZZLE FOR ASSISTING ORIFICE, DEVICE INCORPORATED THEREIN AND METHOD FOR METHOD FOR CARRYING OUT

Publication

**EP 0332483 B1 19920122 (FR)**

Application

**EP 89400411 A 19890214**

Priority

FR 8802407 A 19880226

Abstract (en)

[origin: JPH0237959A] PURPOSE: To achieve the pouring of inert gas at considerably higher pressure than the fluid pressure of molten metal by providing a means making gas flow at the upper part of a molten metal pouring nozzle having partially gas permeability. CONSTITUTION: The molten metal pouring nozzle is constituted of a molten metal discharging hole or a sprue part 1 in the axial direction and a permeable part 2 made of a porous material and gas feeding means 3a, 3b. This molten metal pouring nozzle is used and the inert gas can be poured to the molten metal at considerably higher pressure than the fluid pressure. Therefore, the molten metal near the molten metal discharging hole 1 is stirred, the temp. of molten metal can be raised and scale formed at the time of carrying the molten metal is crushed by the action of the poured gas so that flowing out of the molten metal is facilitated.

IPC 1-7

**B22D 11/10**; **B22D 41/08**

IPC 8 full level

**B22D 11/10** (2006.01); **B22D 1/00** (2006.01); **B22D 37/00** (2006.01); **B22D 41/42** (2006.01); **B22D 41/58** (2006.01)

CPC (source: EP US)

**B22D 1/005** (2013.01 - EP US); **B22D 41/58** (2013.01 - EP US)

Cited by

EP0423449A3; DE4039477A1

Designated contracting state (EPC)

BE DE ES GB IT SE

DOCDB simple family (publication)

**EP 0332483 A1 19890913**; **EP 0332483 B1 19920122**; DE 68900736 D1 19920305; ES 2028448 T3 19920701; FR 2627715 A1 19890901; FR 2627715 B1 19911011; JP H0237959 A 19900207; US 5016788 A 19910521

DOCDB simple family (application)

**EP 89400411 A 19890214**; DE 68900736 T 19890214; ES 89400411 T 19890214; FR 8802407 A 19880226; JP 4632489 A 19890227; US 31490689 A 19890224