

Title (en)

POROUS NOZZLE FOR MOLTEN METAL VESSEL

Publication

**EP 0059805 B1 19850213 (EN)**

Application

**EP 81301019 A 19810311**

Priority

EP 81301019 A 19810311

Abstract (en)

[origin: EP0059805A1] A refractory porous nozzle which is arranged at the bottom of a molten metal vessel, characterized in that said porous nozzle (1) is made in one body having a flange portion (1a) at its upper portion and a cylindrical portion (1b) at its lower portion, the outer peripheral surface of the main body of said porous nozzle is gas-tightly enclosed with a steel shell (3), a gas pool (2) is provided between the bottom surface of said flange portion and the outer peripheral surface of said cylindrical portion, and the inner peripheral surface of said steel shell, and the gas pool is communicated with an inert gas feeding pipe (4).

IPC 1-7

**B22D 41/08; B22D 1/00; C21C 7/072**

IPC 8 full level

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

CPC (source: EP)

**B22D 1/005** (2013.01); **B22D 41/42** (2013.01); **B22D 41/58** (2013.01)

Cited by

EP0187924A1; US5072779A; EP3097997A1; BE1000818A3; US4668554A; GB2173726A; FR2683753A1; FR2554024A1; GB2148765A; FR2543576A1; EP0332483A1; FR2627715A1; US5016788A; JP2021049564A; CN114040823A; WO2021060122A1; WO0247846A3; WO8404477A1; WO2023047153A1; TWI770616B

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