

Title (en)
GAS FLUSHING PLUG FOR METALLURGICAL VESSELS

Publication
EP 0148336 B1 19870819 (DE)

Application
EP 84112403 A 19841015

Priority
DE 3341491 A 19831117

Abstract (en)
[origin: US4560149A] A gas bubble brick for metallurgical vessels consists of a gas-permeable shaped brick (2) which can be installed in the wall or the bottom of the vessel and having directed porosity, which is designed in a ring region (6) of the shaped brick, a gas-tight metal encasing (3) partially surrounding the shaped brick (2) and welded together from a metal jacket (8) extending around the lateral circumferential area of the shaped brick and a metal cover (9) covering the outer face of the shaped brick, as well as a gas supply pipe (4), which is welded onto the rim of a central gas inlet orifice (11) of the metal cover. In order to achieve that the ring region (6) with directed porosity is optimally utilized for gas passage, an annular collecting chamber (16) is provided in front of the inlet cross-section of this region (6), the connecting area of the gas supply pipe (4) being joined to the annular collecting chamber (16) via at least one joining channel (17). Preferably, several spiral-armed joining channels (17), arranged at regular intervals around the circumference, are provided so that a circulating flow is generated in the annular collecting chamber (16), ensuring even pressure conditions.

IPC 1-7
C21C 7/072

IPC 8 full level
C21C 7/072 (2006.01); **B22D 1/00** (2006.01); **F27D 3/16** (2006.01)

CPC (source: EP US)
B22D 1/005 (2013.01 - EP US)

Cited by
EP0230217A3

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0148336 A1 19850717; EP 0148336 B1 19870819; AT E29044 T1 19870915; CA 1230479 A 19871222; DE 3341491 C1 19850711; DE 3465497 D1 19870924; JP H0140886 B2 19890901; JP S60116712 A 19850624; US 4560149 A 19851224

DOCDB simple family (application)
EP 84112403 A 19841015; AT 84112403 T 19841015; CA 467067 A 19841105; DE 3341491 A 19831117; DE 3465497 T 19841015; JP 23873084 A 19841114; US 66443984 A 19841024