

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)

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