Title (en)
Gas feeder device for a flushing element

Title (de)
Gaszuführeinrichtung für ein Spülelement

Title (fr)
Système d'alimentation en gaz pour un élément de nettoyage

Publication
EP 1849538 A1 20071031 (DE)

Application
EP 07004291 A 20070302

Priority
DE 102006018931 A 20060424

Abstract (en)
Feed system for gas flushing of metallurgical vessels comprises a gas pipe (12) enclosed in a refractory pipe (10) of larger internal diameter than the internal diameter of the gas pipe. The outer pipe also encloses a cooling pipe (16) with perforations, through which cool air flows. An independent claim is included for walls and floors of metallurgical vessels fitted with the gas feed system.

Abstract (de)
Die Erfindung betrifft eine Gaszuführeinrichtung für mindestens ein Spülelement, das in einem Boden und/oder einer Wand eines metallurgischen Schmelzgefäßes installiert ist.

IPC 8 full level
B22D 1/00 (2006.01); **C21C 5/48** (2006.01); **C21C 7/072** (2006.01); **C22B 9/05** (2006.01)

CPC (source: EP)
B22D 1/005 (2013.01); **C21B 7/163** (2013.01); **C21C 5/48** (2013.01); **C22B 9/05** (2013.01); **F27D 3/16** (2013.01)

Citation (search report)
- [X] US 4266970 A 19810512 - IWAOKA SHOJI, et al
- [X] JP S56142813 A 19811107 - ATSUJI TEKKO KK
- [X] DE 3907887 A1 19891026 - RADEX HERAKLITH [AT]
- [X] AT 387404 B 19890125 - RADEX AUSTRIA AG [AT]
- [X] DE 4223108 C1 19930819

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1849538 A1 20071031; **EP 1849538 B1 20080702**; AT E399609 T1 20080715; DE 102006018931 B3 20070726; DE 502007000028 D1 20080814; ES 2308755 T3 20081201; NO 20072061 L 20071025; PL 1849538 T3 20081128

DOCDB simple family (application)
EP 07004291 A 20070302; AT 07004291 T 20070302; DE 102006018931 A 20060424; DE 502007000028 T 20070302; ES 07004291 T 20070302; NO 20072061 A 20070423; PL 07004291 T 20070302