

Title (en)

GAS RINSER WITH SUITABLE SLOT-SHAPED CANALS

Title (de)

GASSPÜLER MIT GENEIGTEN SCHLITZFÖRMIGEN KANÄLEN

Title (fr)

RINCEUR DE GAZ COMPORTANT DES CANAUX EN FORME DE FENTES INCLINEES

Publication

EP 1631404 B1 20061213 (DE)

Application

EP 04739509 A 20040602

Priority

- EP 2004005925 W 20040602
- DE 10326113 A 20030606

Abstract (en)

[origin: US2004245683A1] Represented and described is a gas lance (1) made of a fireproof material, having an entry surface (2) and an exit surface (3), having channels (5) having slit-shaped cross-section, which comprise an entry slit (6) and an exit slit (7). In order to provide a gas lance (1) in which the gas exits in such a manner that a good thorough mixing of the melt is achieved and a simple penetration of the melt by the gas is avoided, it is proposed that the projection of the exit slit (7) of a channel (5) onto the entry surface (6) be offset in relation to the entry slit (7) of the channel.

IPC 8 full level

B22D 1/00 (2006.01); **C21C 5/48** (2006.01)

CPC (source: EP US)

B22D 1/005 (2013.01 - EP US); **C21C 5/48** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2004245683 A1 20041209; AT E347950 T1 20070115; CN 100360260 C 20080109; CN 1809434 A 20060726; DE 10326113 B3 20041216; DE 502004002317 D1 20070125; EP 1631404 A2 20060308; EP 1631404 B1 20061213; ES 2279382 T3 20070816; PL 1631404 T3 20070531; TW 200523371 A 20050716; TW I324183 B 20100501; US 2006220282 A1 20061005; US 7384593 B2 20080610; WO 2004108328 A2 20041216; WO 2004108328 A3 20050310

DOCDB simple family (application)

US 62629703 A 20030724; AT 04739509 T 20040602; CN 200480015699 A 20040602; DE 10326113 A 20030606; DE 502004002317 T 20040602; EP 04739509 A 20040602; EP 2004005925 W 20040602; ES 04739509 T 20040602; PL 04739509 T 20040602; TW 93116140 A 20040604; US 45470906 A 20060616