

Title (en)
Electric arc furnace with an exhaust manifold

Title (de)
Elektrolichtbogenofen mit einem Abgaskrümmer

Title (fr)
Four à arc avec un collecteur d'échappement

Publication
EP 1302738 A3 20031015 (DE)

Application
EP 02020613 A 20020913

Priority
DE 10150628 A 20011012

Abstract (en)
[origin: EP1302738A2] Electric arc furnace comprises a lower vessel (2); an upper vessel (3); and a waste gas bend (5) connected to a combustion chamber (7) or a stationary waste gas line via a flap valve (6), which can be adjusted to introduce air. The waste gas bend is formed on one side of the furnace vessel as a hood (5a) extending toward a suction opening (5b). A lid hole (4a) covers an electrode (10). Preferred Features: The furnace lid (4) has no lining or has a reduced lining. A recess for the electrode is in the hood. The hood formed channel-like openings for introducing entrained air on its front sides.

IPC 1-7
F27B 3/18; **F27D 17/00**; **C21C 5/52**; **F27D 1/18**

IPC 8 full level
F27B 3/16 (2006.01); **F27D 17/00** (2006.01); **F27B 3/08** (2006.01); **F27D 1/18** (2006.01); **F27D 99/00** (2010.01)

CPC (source: EP)
F27B 3/16 (2013.01); **F27D 17/003** (2013.01); **F27B 3/085** (2013.01); **F27D 1/1816** (2013.01); **F27D 2099/0048** (2013.01)

Citation (search report)
• [A] EP 0805327 A1 19971105 - DANIELI OFF MECC [IT]
• [AD] DE 4332913 A1 19950330 - MANNESMANN AG [DE]
• [A] GUTHMANN K: "RAUCHGASBESEITIGUNG BEI LICHTBOGENOFEN", STAHL UND EISEN, VERLAG STAHL EISEN GMBH. DUSSELDORF, DE, vol. 81, no. 10, 11 May 1961 (1961-05-11), pages 686 - 687, XP002011202, ISSN: 0340-4803
• [A] KARL-HEINZ HEINEN: "Elektrostahl-Erzeugung", STAHL EISEN, GERMANY, XP002250591

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Designated contracting state (EPC)
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EP 1302738 A2 20030416; **EP 1302738 A3 20031015**; DE 10150628 A1 20030430; DE 10150628 B4 20070419

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