

Title (en)
ELECTRODE FOR ARC FURNACES AND ITS USE

Publication
EP 0063711 B1 19850821 (DE)

Application
EP 82102771 A 19820401

Priority
DE 3116221 A 19810423

Abstract (en)
[origin: EP0063711A1] An arc furnace electrode comprises a top portion (5) of metal and a consumable bottom portion (6) of carbon material having a substantially cylindrical form, the portions being connected to each other by a screw nipple (1) or the like, or indirectly. The top portion (5) has a liquid cooling device comprising a feed duct (2) and a return duct (3) and the bottom region of the top portion can advantageously be protected by a high-temperature resistant covering (4). The bottom portion (6) is formed of fine grained, high-tensile, high-graphite carbon material with a bulk density of at least 1.70 g/cm³. The electrode is used with advantage for the production of electrosteel. <IMAGE>

IPC 1-7
H05B 7/085; **H05B 7/101**; **H05B 7/12**

IPC 8 full level
F27D 11/10 (2006.01); **H05B 7/085** (2006.01); **H05B 7/101** (2006.01); **H05B 7/12** (2006.01)

CPC (source: EP)
H05B 7/085 (2013.01); **H05B 7/101** (2013.01)

Cited by
EP0115812A3; EP0125200A1; US5940426A; EP0793400A3

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

DOCDB simple family (publication)
EP 0063711 A1 19821103; **EP 0063711 B1 19850821**; AT E15120 T1 19850915; AU 8219982 A 19821125; BR 8202309 A 19830405; DD 202362 A5 19830907; DE 3116221 A1 19821111; DE 3265539 D1 19850926; DK 181782 A 19821024; ES 511792 A0 19831101; ES 8400644 A1 19831101; FI 821029 A0 19820324; FI 821029 L 19821024; GB 2097638 A 19821103; GR 75550 B 19840727; HU 186006 B 19850528; JP S5894794 A 19830606; NO 820908 L 19821025; PL 236124 A1 19821206; PT 74764 A 19820501; PT 74764 B 19831115; TR 21231 A 19840206; ZA 822054 B 19830330

DOCDB simple family (application)
EP 82102771 A 19820401; AT 82102771 T 19820401; AU 8219982 A 19820331; BR 8202309 A 19820422; DD 23923182 A 19820422; DE 3116221 A 19810423; DE 3265539 T 19820401; DK 181782 A 19820423; ES 511792 A 19820414; FI 821029 A 19820324; GB 8208739 A 19820325; GR 820167817 A 19820405; HU 129882 A 19820423; JP 6853482 A 19820422; NO 820908 A 19820319; PL 23612482 A 19820423; PT 7476482 A 19820415; TR 2123182 A 19820423; ZA 822054 A 19820325