

Title (en)

Electrode for high temperature processes and its use.

Title (de)

Elektrode für Hochtemperaturverfahren und ihre Anwendung.

Title (fr)

Electrode pour procédés haute température et son application.

Publication

EP 0109356 A2 19840523 (EN)

Application

EP 83810487 A 19831021

Priority

CH 660382 A 19821112

Abstract (en)

Electrode for high-temperature processes, comprising an active section and a cooling section attached to it and extending into the furnace interior, said cooling section (3) comprising at least one heat pipe (5) with a polytropic heat exchanger in the furnace interior which has an additional cooling system (e.g. 6 in Fig. 1) for the dissipation of heat. The additional cooling system may comprise further heat pipes, a gas and/or a fluid circulation system, with the cooling fluid being pumped, and/or a heat insulation. The electrode is intended for use in high-temperature processes, particularly in the production of steel. It is characterized by a safe and flexible manoeuvrability.

IPC 1-7

H05B 7/101; H05B 7/12

IPC 8 full level

F27D 11/10 (2006.01); **H05B 7/101** (2006.01); **H05B 7/12** (2006.01)

CPC (source: EP)

H05B 7/101 (2013.01); **H05B 7/12** (2013.01)

Cited by

CN113932602A; CN103256705A; EP0135473A1; EP0202352A1; EP0157104A1; CN114071819A; WO2024178630A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0109356 A2 19840523; **EP 0109356 A3 19850424**; JP S59194392 A 19841105

DOCDB simple family (application)

EP 83810487 A 19831021; JP 21315883 A 19831112