

Title (en)

A COMPOSITE PREBAKED CARBON ELECTRODE INTENDED TO BE USED IN ELECTRIC ARC FURNACES

Publication

EP 0142476 A3 19850814 (EN)

Application

EP 84830293 A 19841031

Priority

IT 4932983 A 19831111

Abstract (en)

[origin: EP0142476A2] A prebaked carbon electrode intended to be used in electric arc furnaces and, more particularly, in submerged arc furnaces such as the furnaces normally used for the production of silicon metal, phosphorus, ferro-alloys, and other metals, having a body and one or more joints to create an electrode column, the electrode having a composite construction comprising an outer portion or "rind" made from a first material and an inner portion or "core" made from a second material, wherein for example the first material is an an electrographite based material and the second material is an anthracite based material, the electrode being obtained by extrusion, vibration, molding or by any other suitable process known in the art. Quite generally, both the "rind" and the "core" can consist of any type of carbonaceous material.

IPC 1-7

H05B 7/085

IPC 8 full level

H05B 7/085 (2006.01)

CPC (source: EP)

H05B 7/085 (2013.01)

Citation (search report)

- [X] DE 3145993 A1 19830601 - SIGRI ELEKTROGRAPHIT GMBH [DE]
- [X] CH 97969 A 19230216 - TH DEPREZ [CH]
- [A] US 2300503 A 19421103 - HAMISTER VICTOR C, et al
- [A] DE 1137150 B 19620927 - SIEMENS PLANIAWERKE AG
- [A] GB 773579 A 19570501 - LORRAINE CARBONE
- [A] FR 2019521 A6 19700703 - FOSECO TRADING AG
- [A] GB 241461 A 19251022 - CARL WILHELM BECKER

Cited by

AT401303B; EP1406473A1; DE102009047320B3; DE19850735C1; EP2368847A1; CN102196611A; US8366892B2; US9131538B2; WO0027168A1

Designated contracting state (EPC)

DE FR

DOCDB simple family (publication)

EP 0142476 A2 19850522; EP 0142476 A3 19850814; IT 1171887 B 19870610; IT 8349329 A0 19831111; NO 844492 L 19850513

DOCDB simple family (application)

EP 84830293 A 19841031; IT 4932983 A 19831111; NO 844492 A 19841109