

Title (en)

PROCESS FOR DEPOSITING POWDERY MATERIAL CONTAINING GRAPHITE AND SYNTHETIC RESIN ON A CARBON ELECTRODE WITH METALLIC COATING, PARTICULARLY ON A GRAPHITE ELECTRODE

Publication

EP 0092649 A3 19840307 (DE)

Application

EP 83101342 A 19830211

Priority

DE 3215831 A 19820428

Abstract (en)

[origin: EP0092649A2] The invention relates to a process for depositing powdery material containing graphite and synthetic resin on a carbon electrode with a metallic coating, particularly on a graphite electrode, in which, to save energy and production costs, the application of the powdery material is not carried out from an aqueous suspension on a cold electrode surface with a water-soluble adhesive being mixed for bonding the coating onto the electrode surface, but the dry powder mixture is applied without special adhesive onto the electrode surface, heated at least to the melting temperature of the synthetic resin. The synthetic resin melts on this heated surface and thus acts as an adhesive for the graphite powder, hardens, and thus forms a solid, adhering protective layer, containing graphite, which allows the use of metallic contact jaws for current transmission to the electrode in an arc furnace for steel production, without the contact jaws being welded to the electrode surface.

IPC 1-7

H05B 7/085; C04B 35/52; C21C 5/52; H05B 7/00

IPC 8 full level

H05B 7/085 (2006.01); **H05B 7/12** (2006.01)

CPC (source: EP)

H05B 7/085 (2013.01); **H05B 7/12** (2013.01)

Citation (search report)

- DE 3028348 A1 19820401 - CONRADTY NUERNBERG [DE]
- DE 1646679 A1 19711118 - METALURGITSCHEN ZD LENIN
- GB 1386611 A 19750312 - FOSECO INT
- GB 2024045 A 19800109 - UNITED TECHNOLOGIES CORP
- GB 2075060 A 19811111 - SKLYARIV A T
- DE 2305276 A1 19740808 - NIPKTI PO CHERNA METALURGIA

Cited by

EP2190262A1; EP0165418A1; EP0233398A1; EP2330868A1; WO2010060932A1

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