

Title (en)

METHOD FOR REDUCING THE CONSUMPTION OF GRAPHITE ELECTRODES

Publication

EP 0334007 B1 19910410 (DE)

Application

EP 89102063 A 19890207

Priority

DE 3809361 A 19880319

Abstract (en)

[origin: EP0334007A1] Graphite electrodes are consumed when used in electric arc furnaces in contact with atmospheric oxygen. The consumption can be reduced by coating the electrodes with thermally resistant films which are not permeable to the oxidising agent. The new method is intended to reduce the cost of producing protective films. While they are being used in electric arc furnaces, the aqueous solution of a film-forming salt, in particular monoaluminium phosphate, is sprayed onto the lateral surface of the electrodes. <IMAGE>

IPC 1-7

H05B 7/085; **H05B 7/12**

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)

Cited by

EP4216672A1; WO2020081155A1; US5407290A; US2020196404A1; US10694592B1; EP3815465A4; US11979968B2; US11140755B2; US11653426B2

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