

Title (en)

DIMENSIONING OF A BOTTOM ELECTRODE FOR A DIRECT CURRENT ARC FURNACE TO MINIMIZE POWER LOSSES

Publication

EP 0132711 A3 19850313 (DE)

Application

EP 84108188 A 19840712

Priority

CH 413583 A 19830728

Abstract (en)

[origin: EP0132711A2] In order to reduce the power losses of a bottom electrode (7a, b, c, d) to minimum values, the ratio of its average cross-section and length is to be dimensioned in such a manner that its heating by the current alone, with cooling on its outer side, produces on its inner side a temperature which corresponds to the temperature of the molten bath (13). Factors have been determined for both one-piece bottom electrodes (7a, b, c) and binary bottom electrodes (7d), which make possible optimum dimensioning of the bottom electrodes (7a, b, c, d) with regard to minimum power losses. <IMAGE>

IPC 1-7

F27D 11/10; H05B 7/06

IPC 8 full level

F27D 11/10 (2006.01); **H05B 7/06** (2006.01)

CPC (source: EP)

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Citation (search report)

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