

Title (en)

METHOD FOR PRODUCING A MELT IRON IN AN ELECTRIC FURNACE

Title (de)

VERFAHREN ZUM HERSTELLEN VON FLÜSSIGEM ROHEISEN IN EINEM ELEKTRISCHEN OFEN

Title (fr)

PROCEDE DE PRODUCTION DE FONTE LIQUIDE DANS UN FOUR ELECTRIQUE

Publication

**EP 1383933 B1 20050518 (FR)**

Application

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Abstract (en)

[origin: WO02068700A1] The invention relates to a method for producing a melt iron in an electric arc furnace which comprises several electrodes, is fitted with a hearth and contains a heel, on top of which is disposed a non-foaming liquid slag. The inventive method comprises the following steps: the reduction of the metallic fillers to form pre-reduced metallic fillers comprising excess free carbon; the hot transfer of said pre-reduced metallic fillers inside an inert gas curtain into a heel contained in the electric arc furnace; the mixing of the heel through the injection of gas so as to prevent crust formation; the smelting of the pre-reduced metallic fillers in the electric arc furnace in order to produce the melt iron.

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