Title (en)

HOMOGENIZATION OF MARTENSITIC STAINLESS STEEL AFTER REMELTING UNDER A LAYER OF SLAG

Title (de)

HOMOGENISIERUNG VON MARTENSITISCHEM EDELSTAHL NACH DEM UMSCHMELZEN UNTER EINER SCHLACKESCHICHT

Title (fr)

HOMOGENEISATION D'ACIERS MARTENSITIQUES INOXYDABLES APRES REFUSION SOUS LAITIER

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2011045513A1] The present invention relates to a method for producing a martensitic stainless steel that includes a step in which an ingot of the steel is remelted under a layer of slag, followed by a step in which the ingot is cooled. Before the skin temperature of the ingot resulting from the slag remelting step drops below the martensitic transformation temperature Ms of the steel, the ingot is placed in a furnace, the initial temperature T0 of which is then above the cooling-induced pearlite transformation finish temperature Ar1 of the steel. In the furnace, the ingot is subjected to a homogenization treatment at least for a holding time t after the temperature of the coolest point in the ingot has reached a homogenization temperature T, said holding time t being equal to at least one hour and the homogenization temperature T varying between approximately 900°C and the burning temperature of the steel.

IPC 8 full level

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