

Title (en)

METHOD FOR COOLING A BLAST FURNACE WITH COOLING PLATES

Title (de)

VERFAHREN ZUM KÜHLEN EINES HOCHOFENS MIT KÜHLPLATTEN

Title (fr)

PROCEDE DE REFROIDISSEMENT D'UN HAUT-FOURNEAU AU MOYEN DE PLAQUES DE REFROIDISSEMENT

Publication

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Application

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Abstract (en)

[origin: WO0227042A1] The invention relates to a method for cooling a blast furnace provided with staves. Said staves are cooling plates comprising a massive plate body wherein cooling channels are integrated. The inventive method is characterised in that, the cooling water through flow, particularly in thermically high loaded areas of the furnace, is reduced in such a way that the average flow speed of the cooling water in the direction of the longitudinal axis of the cooling channel is less than 1.0 m/s and can even be lower than 0.6 m/s. A whirl device is mounted upstream from the cooling channels in such a way that it generates a spiral flow of cooling liquid around the longitudinal axis of the cooling channel.

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