

Title (en)  
METHOD AND DEVICE FOR THERMALLY PROCESSING A STEEL PRODUCT

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR THERMISCHEN VERARBEITUNG EINES STAHLPRODUKTES

Title (fr)  
PROCÉDÉ ET DISPOSITIF DE TRAITEMENT THERMIQUE D'ARTICLE EN ACIER

Publication  
**EP 3095881 A1 20161123 (EN)**

Application  
**EP 14878193 A 20140113**

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Abstract (en)  
The invention relates to the field of metallurgy, in particular to thermal processing a steel product, namely rolled products of various forms, including sheet rolled products and shaped rolled products, specifically railway rails. The technical result is achieved by means of a method for thermally processing a steel product, including continuous and/or differentiated cooling a steel product following rolling heating and/or repeated heating from a temperature no lower than the austenitizing temperature; wherein cooling is carried out using cooling medium formed in nozzle apertures in a plate, which is installed on an outlet aperture of a collector, by way of ejecting water by flows of gaseous medium, which is fed from a gaseous medium pipework into a collector and then into nozzle apertures in the plate, water being fed from a water pipework into nozzle apertures in the plate through channels formed in the plate with the nozzle apertures. The method of thermally processing a steel product is realized by means of a device for thermally processing a steel product, comprising a gaseous medium pipework, a water pipework, cooling modules, each of which comprises a collector having an inlet aperture allowing for the input of gaseous medium, and having an outlet aperture which is directed to a surface of a steel product, which surface is subjected to thermal processing, and on which outlet aperture is installed the plate with the nozzle apertures. Channels are provided in the plate, through which channels water is fed from the water pipework into the nozzle apertures.

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