

Title (en)

METHOD AND DEVICE FOR COOLING SURFACES IN CASTING INSTALLATIONS, ROLLING INSTALLATIONS OR OTHER STRIP PROCESSING LINES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR KÜHLUNG VON OBERFLÄCHEN IN GIEßANLAGEN, WALZANLAGEN ODER SONSTIGEN BANDPROZESSLINIEN

Title (fr)

PROCÉDÉ ET DISPOSITIF DE REFROIDISSEMENT DE SURFACES DANS DES INSTALLATIONS DE COULÉE, DE LAMINAGE, OU AUTRES INSTALLATIONS DE TRAITEMENT DE BANDES

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Application

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Abstract (en)

[origin: WO2014006008A1] The invention relates to a method for cooling a surface of cast material, rolled material (1) or a roll. Provided for the method is a nozzle, which comprises an inlet (3) and an outlet (5) lying opposite the surface to be cooled. Also provided is a preferably single-phase volume flow (V) of a cooling fluid, which is fed to the nozzle (2) via the inlet (3) and leaves the nozzle (2) through the outlet (5). According to the invention, the nozzle outlet (5) is mounted at a variable distance (d) from the surface to be cooled, wherein the volume flow (V) of the cooling fluid fed to the inlet (3) of the nozzle (2) is set in such a way that, in accordance with the Bernoulli principle, the nozzle (2) is sucked firmly against the surface (1) to be cooled. In addition, the invention is directed to a cooling device (10) for carrying out the method according to the invention and to a rolling device comprising this cooling device (10).

IPC 8 full level

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