Title (en)

METHOD AND DEVICE FOR THE CONTROLLED COOLING OF SHEETS

Publication

EP 0080932 B1 19850424 (FR)

Application

EP 82402134 A 19821123

Priority

FR 8122142 A 19811126

Abstract (en)

[origin: EP0080932A1] 1. A process for controlling the cooling of a metal sheet for the purpose of imparting thereto a predetermined crystalline structure, wherein the sheet to be cooled is passed through a case containing a mass of cooling fluid which is regularly renewed, the flow of the cooling fluid being controlled and its temperature measured, characterized in that, according to the thickness of the sheet to be cooled and the desired cooling rate, a theoretical thermal flux is determined, which should be exchanged between the metal sheet and the cooling fluid ; a theoretical flow speed of the fluid on the metal sheet is calculated as a function of the inlet temperature of the cooling fluid and of the theoretical thermal flux ; the flow rate of the cooling fluid is controlled as a function of the calculated flow speed ; a theoretical temperature of the cooling fluid is determined as a function of the theoretical thermal flux ; said theoretical temperature to the measured temperature and the inlet temperature of the cooling fluid is regulated as a function of said theoretical temperature.

IPC 1-7

B21B 45/02; C21D 1/62

IPC 8 full level

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CPC (source: EP)

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Cited by

CN114147077A; CZ305469B6; EP0395191A1; US7294215B2; US5167137A; EP4001447A4; WO03026813A1

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