

Title (en)

Method and apparatus for cooling steel strips.

Title (de)

Verfahren und Vorrichtung zur Abkühlung von Stahlbändern.

Title (fr)

Procédé et dispositif pour le refroidissement de rubans d'acier.

Publication

EP 0210847 A2 19870204 (EN)

Application

EP 86305721 A 19860725

Priority

- JP 13911586 A 19860617
- JP 16290985 A 19850725

Abstract (en)

A method and apparatus for cooling steel strips by means of a cooling liquid in a continuous annealing line. The cooling liquid is forced to flow as steady flows along both surfaces of a steel strip in directions opposite to moving directions of the steel strip. An apparatus comprises flow rectifier plates in opposition to both the surfaces of the steel strip to form flow passages between the steel strip and the flow rectifier plates for forcing the cooling liquid through the flow passages, at least one cooling liquid supply port on a downstream side of the moving steel strip and at least one cooling liquid exhaust port on an upstream side of the moving steel strip. In order to control the cooled steel strip temperature, part of the cooling liquid used for cooling the steel strip is mixed with fresh cooling liquid to control temperature of cooling liquid to be used for cooling by adjusting a mixing ratio of the used and fresh cooling liquids, thereby keeping temperature of the cooled steel strip within a predetermined target temperature range.

IPC 1-7

C21D 1/62; **C21D 9/573**

IPC 8 full level

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CPC (source: EP KR)

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Cited by

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