

Title (en)
METAL BAND COOLING APPARATUS AND COOLING METHOD THEREFOR

Title (de)
KÜHLUNGSVORRICHTUNG UND -VERFAHREN FÜR METALLBAND

Title (fr)
DISPOSITIF ET PROCEDE DE REFROIDISSEMENT DE FEUILLARD

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Application
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- JP 15263593 A 19930601
- JP 15263693 A 19930601
- JP 15636193 A 19930603
- JP 15636293 A 19930603
- JP 17368293 A 19930622
- JP 17368393 A 19930622
- JP 17368493 A 19930622
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- JP 18744192 A 19920623

Abstract (en)
[origin: WO9400605A1] A metal band cooling apparatus in a roll cooling machine on a heat treatment line, and a cooling method therefor. The basic characteristics of this invention reside in a roll cooling apparatus for regulating the contact length of a metal band with not less than one cooling roll by winding the metal band around the cooling rolls, the apparatus having a gas cooling unit disposed in an opposed state with respect to the cooling rolls via the metal band, and provided with not less than two nozzle headers extending in the lengthwise direction of the rolls, having a width smaller than that of the metal band and formed so that these nozzle headers can be moved in the moving direction of the cooling rolls and so that at least one of the nozzle headers can be moved in the lengthwise direction of the cooling rolls; and a gas regulating unit for regulating the pressure or flow rate of a cooling gas in the nozzle headers. By utilizing this structure, the narrow nozzle headers of the gas cooling unit is moved to a position just above a hot point of a narrow W-type ununiform temperature distribution, and a cooling gas the pressure or flow rate of which has been regulated by the gas regulating unit is blown out toward the hot point, whereby the mentioned part is cooled in a concentrated manner to efficiently eliminate ununiform temperature distribution.

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