

Title (en)

WIRE ROD COOLING DEVICE AND WIRE ROD COOLING METHOD

Title (de)

WALZDRAHTKÜHLVORRICHTUNG UND WALZDRAHTKÜHLVERFAHREN

Title (fr)

DISPOSITIF DE REFROIDISSEMENT DE TIGE DE FIL ET PROCÉDÉ DE REFROIDISSEMENT DE TIGE DE FIL

Publication

**EP 3037185 A1 20160629 (EN)**

Application

**EP 14858812 A 20140804**

Priority

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- JP 2014070474 W 20140804

Abstract (en)

A wire rod cooling apparatus that cools a wire rod wound in a ring shape by a wire rod winder while transferring the wire rod on a conveyor includes: a plurality of jet nozzles that are arranged along a width direction of the conveyor and jet coolant toward the wire rod; an imaging device that is provided on a transfer-line upstream side of a jet nozzle row composed of the plurality of jet nozzles and captures an image of the wire rod being transferred; and a control unit that extracts sparseness and denseness information and temperature information of the wire rod from the captured image. The control unit is configured to control a flow rate of coolant jetted from the jet nozzles individually for each jet nozzle on the basis of the sparseness and denseness information and the temperature information of the wire rod in conformity with a timing when a specified portion corresponding to the information arrives at the jet nozzle.

IPC 8 full level

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CPC (source: EP US)

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