

Title (en)
COOLING DEVICE&METHOD

Title (de)
KÜHLVORRICHTUNG UND -VERFAHREN

Title (fr)
DISPOSITIF ET PROCÉDÉ DE REFROIDISSEMENT

Publication
EP 2964405 A1 20160113 (EN)

Application
EP 14703047 A 20140131

Priority
• GB 201303863 A 20130305
• EP 2014051942 W 20140131

Abstract (en)
[origin: GB2511512A] A method of controlling a profile of a surface of one or more work rolls 8 of a rolling mill comprises supplying a cryogenic coolant 20 to a nozzle 23 and controlling 58 a gas supply 57 to supply gas 24 to the cryogenic coolant so that, if the cooling power provided by the coolant at the surface of the work roll 8 is greater than the cooling power required, a gas supply to the coolant is controlled, such that liquid coolant 20 is atomised 27 by the gas before being sprayed onto the surface of the work roll or if the cooling power provided by the coolant at the surface of the work roll is less than the cooling power required, the gas supply is controlled, such that the coolant 20 is supplied as a liquid 26 to the surface of the work rolls. The gas supply may be controlled in response to measurements of strip flatness. The cryogenic coolant 20 may be liquid nitrogen. The coolant supply may be divided into zones having multiple nozzles.

IPC 8 full level
B21B 27/10 (2006.01)

CPC (source: EP GB)
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