

Title (en)
COOLING SYSTEM FOR A ROLLING MILL

Title (de)
KÜHLSYSTEM FÜR EIN WALZWERK

Title (fr)
SYSTÈME DE REFROIDISSEMENT POUR UN LAMINOIR

Publication
EP 4144453 A1 20230308 (EN)

Application
EP 21195167 A 20210907

Priority
EP 21195167 A 20210907

Abstract (en)
A method of cooling a material in a cooling system of a rolling mill using a cooling fluid, the method comprising the steps of: conveying, by a transportation mechanism, a length of material into the cooling system of a rolling mill; measuring, by a sensor, a speed of the length of material; comparing, by a control system, the measured speed to a setpoint speed, wherein the setpoint speed has a corresponding first flow rate of the cooling fluid; calculating, by the control system, a second flow rate of the cooling fluid based on the comparison, wherein the second flow rate is different from the first flow rate; and applying, to the material in the cooling system, the cooling fluid at the second flow rate.

IPC 8 full level
B21B 45/02 (2006.01); **B21B 37/74** (2006.01); **B21B 38/00** (2006.01)

CPC (source: EP)
B21B 37/74 (2013.01); **B21B 38/00** (2013.01); **B21B 45/0203** (2013.01); **B21B 2275/06** (2013.01)

Citation (search report)

- [I] SU 1357100 A1 19871207 - KRIVOROZH KI I AVTOMATIKI [SU]
- [I] CN 106583453 B 20180417

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

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KH MA MD TN

DOCDB simple family (publication)
EP 4144453 A1 20230308; CN 117916031 A 20240419; DE 112022003044 T5 20240418; WO 2023036696 A1 20230316

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EP 21195167 A 20210907; CN 202280060788 A 20220902; DE 112022003044 T 20220902; EP 2022074411 W 20220902