

Title (en)

QUENCHING DEVICE, QUENCHING METHOD, AND METAL SHEET MANUFACTURING METHOD

Title (de)

ABSCHRECKVORRICHTUNG, ABSCHRECKVERFAHREN UND VERFAHREN ZUR HERSTELLUNG VON METALLBLECHEN

Title (fr)

DISPOSITIF DE TREMPER, PROCÉDÉ DE TREMPER ET PROCÉDÉ DE FABRICATION DE FEUILLE MÉTALLIQUE

Publication

**EP 4372105 A1 20240522 (EN)**

Application

**EP 22861064 A 20220729**

Priority

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- JP 2022029364 W 20220729

Abstract (en)

Variations in the shape of a metal sheet generated at the time of quenching are suppressed. A metal-sheet quenching apparatus 1 cools a metal sheet while conveying the metal sheet and includes a cooling device 10 that cools a metal sheet S that is conveyed; restraining rolls 20 that convey the metal sheet S cooled by the cooling device 10 while restraining the metal sheet S in the thickness direction; a roll moving device 30 that moves the restraining rolls 20 in the conveyance direction of the metal sheet S; and a movement control device 40 that controls the operation of the roll moving device 30 to adjust the position of the restraining rolls 20.

IPC 8 full level

**C21D 9/573** (2006.01); **B21B 45/02** (2006.01); **C21D 1/18** (2006.01); **C21D 1/63** (2006.01); **C21D 1/667** (2006.01); **C22C 38/00** (2006.01); **C22C 38/60** (2006.01)

CPC (source: EP KR)

**B21B 45/02** (2013.01 - EP KR); **C21D 1/18** (2013.01 - EP KR); **C21D 1/60** (2013.01 - EP); **C21D 1/63** (2013.01 - EP KR); **C21D 1/667** (2013.01 - EP KR); **C21D 8/0205** (2013.01 - EP); **C21D 9/46** (2013.01 - EP); **C21D 9/573** (2013.01 - KR); **C22C 38/00** (2013.01 - EP); **C22C 38/02** (2013.01 - KR); **C22C 38/04** (2013.01 - KR); **C21D 2211/008** (2013.01 - EP); **C22C 38/04** (2013.01 - EP); **C22C 38/12** (2013.01 - EP); **C22C 38/14** (2013.01 - EP); **C22C 38/16** (2013.01 - EP); **C22C 38/32** (2013.01 - EP); **C22C 38/38** (2013.01 - EP); **C22C 38/60** (2013.01 - EP)

Designated contracting state (EPC)

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Designated extension state (EPC)

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