

Title (en)

Process and device for cooling hot formed elongated metal products

Title (de)

Verfahren und Vorrichtung zum Abkühlen von durch Warmverformen erzeugten, metallischen Langprodukten

Title (fr)

Procédé et dispositif pour le refroidissement de pièces métalliques allongées mises en forme à chaud

Publication

EP 1172448 A3 20021016 (DE)

Application

EP 01113545 A 20010613

Priority

DE 10033644 A 20000711

Abstract (en)

[origin: EP1172448A2] Process for cooling metallic longitudinal products, especially sheet steel pile (S, S1) comprises cooling the products initially by a cooling difference (DELTA T1- DELTA T5) over a cooling period (K1-K5) by wetting with a cooling fluid; and producing a temperature compensation in the product over a compensation interval (E1-E4) without affecting a coolant. Cooling and temperature compensation are repeated until the theoretical final temperature (ET) is reached in the product. An Independent claim is also included for a device for cooling metallic longitudinal products, especially sheet steel pile. Preferred Features: The length of the compensation interval (E1-E4) is 10-30 times the length of the cooling period (K1-K5). The coolant is water or water-containing emulsion.

IPC 1-7

C21D 1/84; **C21D 1/667**; **C21D 9/44**

IPC 8 full level

C21D 1/667 (2006.01); **C21D 1/84** (2006.01); **C21D 9/44** (2006.01)

CPC (source: EP)

C21D 1/667 (2013.01); **C21D 1/84** (2013.01); **C21D 9/44** (2013.01)

Citation (search report)

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- [X] PATENT ABSTRACTS OF JAPAN vol. 003, no. 027 (C - 039) 7 March 1979 (1979-03-07)

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CN105195530A

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1172448 A2 20020116; **EP 1172448 A3 20021016**; DE 10033644 A1 20020131; DE 10033644 C2 20031127; PL 191061 B1 20060331; PL 348445 A1 20020114

DOCDB simple family (application)

EP 01113545 A 20010613; DE 10033644 A 20000711; PL 34844501 A 20010704