

Title (en)

Method of hot forming metal plates

Title (de)

Verfahren zum Warmumformen von metallischen Platten

Title (fr)

Procédé de formage à chaud de plaques métalliques

Publication

EP 2175041 A1 20100414 (EN)

Application

EP 08425657 A 20081009

Priority

EP 08425657 A 20081009

Abstract (en)

Method of hot forming metal plates, in particular steel plates, characterised in that it comprises the following stages: using induction to heat the plate to be formed, forming this plate in a die, cooling the formed plate when the die is in the completely closed condition at the end of forming, with the formed plate still inside it, by means of a flow of liquid nitrogen or a double flow of liquid nitrogen and water, which flows in proximity to the plate through channels in the die, without coming directly into contact with it. The method furthermore provides for using induction to heat the formed plate before subjecting it to a trimming operation.

IPC 8 full level

C21D 1/673 (2006.01); **B21D 37/16** (2006.01)

CPC (source: EP)

B21D 22/022 (2013.01); **B21D 37/16** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

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