

Title (en)

METHOD AND DEVICE FOR WIRE PATENTING BY RADIATION-CONVECTION HEAT TRANSFER

Title (de)

DRAHTPATENTIERVERFAHREN UND VORRICHTUNG MITTELS STRAHLUNGSKONVEKTIONSWÄRMEÜBERTRAGUNG

Title (fr)

PROCÉDÉ ET DISPOSITIF DESTINÉS AU PATENTAGE DE FIL PAR TRANSFERT DE CHALEUR PAR RAYONNEMENT-CONVECTION

Publication

EP 2550373 A1 20130130 (EN)

Application

EP 11711822 A 20110324

Priority

- ES 201030434 A 20100324
- EP 2011054516 W 20110324

Abstract (en)

[origin: WO2011117336A1] The invention relates to a method and device for cooling a wire for patenting processes, where the device comprises a block of material having a very high thermal capacity with a channel adapted for allowing the passage of a wire to be cooled and at least one conduit for the circulation of a cooling fluid, and it further comprises at least one nozzle capable of injecting a turbulent fluid jet towards the wire to be cooled. The turbulent jet is capable of producing cooling in the time and to the extent necessary for the patenting process, thus overcoming the need for using lead baths.

IPC 8 full level

C21D 1/60 (2006.01); **C21D 1/62** (2006.01); **C21D 9/52** (2006.01); **C21D 9/54** (2006.01); **C21D 9/60** (2006.01)

CPC (source: EP ES US)

C21D 1/60 (2013.01 - EP US); **C21D 1/62** (2013.01 - US); **C21D 9/52** (2013.01 - ES); **C21D 9/525** (2013.01 - EP US); **C21D 9/54** (2013.01 - EP US); **C21D 9/60** (2013.01 - EP US); **Y02P 10/25** (2015.11 - EP US)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 2011117336 A1 20110929; AU 2011231587 A1 20121115; BR 112012024245 A2 20160712; CA 2793589 A1 20110929; CO 6620049 A2 20130215; EP 2550373 A1 20130130; ES 2365462 A1 20111006; ES 2365462 B1 20120810; MX 2012011023 A 20130226; US 2013074995 A1 20130328; ZA 201207974 B 20130626

DOCDB simple family (application)

EP 2011054516 W 20110324; AU 2011231587 A 20110324; BR 112012024245 A 20110324; CA 2793589 A 20110324; CO 12188418 A 20121023; EP 11711822 A 20110324; ES 201030434 A 20100324; MX 2012011023 A 20110324; US 201113636945 A 20110324; ZA 201207974 A 20121023