

Title (en)

METHOD FOR INDUCTIVE HEATING OF A METALLIC WORKPIECE

Title (de)

VERFAHREN ZUM INDUKTIVEN ERWÄRMEN EINES METALLISCHEN WERKSTÜCKS

Title (fr)

PROCÉDÉ D'ÉCHAUFFEMENT PAR INDUCTION D'UNE PIÈCE MÉTALLIQUE

Publication

**EP 2204071 A1 20100707 (DE)**

Application

**EP 08785563 A 20080814**

Priority

- EP 2008006716 W 20080814
- DE 102007051108 A 20071024

Abstract (en)

[origin: WO2009052886A1] A method for inductive heating of a metallic workpiece to a SET temperature by rotation of the workpiece relative to a constant magnetic field which passes through the workpiece, distinguished in that the workpiece is clamped in between two clamping jaws which can be rotated about a common axis, in that at least one of the clamping jaws is driven to rotate, in that at least one of the clamping jaws can be moved actively on or parallel to the rotation axis, in that the contact-pressure force is controlled by means of at least one of the clamping jaws, and in that at least one mechanical variable, which is representative of the workpiece temperature, is measured as the ACT value and is compared with a SET value, which is representative of the SET temperature, of this mechanical variable.

IPC 8 full level

**H05B 6/02** (2006.01); **H05B 6/06** (2006.01); **H05B 6/14** (2006.01)

CPC (source: EP US)

**C21D 1/10** (2013.01 - EP US); **C21D 9/28** (2013.01 - EP US); **Y02P 10/25** (2015.11 - EP US)

Citation (search report)

See references of WO 2009052886A1

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)

AL BA MK RS

DOCDB simple family (publication)

**WO 2009052886 A1 20090430**; AU 2008316049 A1 20090430; BR PI0817928 A2 20150407; CA 2688231 A1 20090430; CA 2688231 C 20101102; CN 101836501 A 20100915; DE 102007051108 A1 20090514; DE 102007051108 B4 20100715; EP 2204071 A1 20100707; JP 2011501366 A 20110106; KR 20100075534 A 20100702; RU 2010120725 A 20111127; TW 200938008 A 20090901; US 2010147834 A1 20100617

DOCDB simple family (application)

**EP 2008006716 W 20080814**; AU 2008316049 A 20080814; BR PI0817928 A 20080814; CA 2688231 A 20080814; CN 200880112972 A 20080814; DE 102007051108 A 20071024; EP 08785563 A 20080814; JP 2010530289 A 20080814; KR 20107008876 A 20080814; RU 2010120725 A 20080814; TW 97140710 A 20081023; US 71471410 A 20100301