

Title (en)

Method for induction heat treatment of parts with rotational symmetry

Title (de)

Verfahren zur induktiven thermischen Behandlung rotationssymmetrischer Bauteile

Title (fr)

Procédé de traitement thermique par induction pour pièce mécanique de révolution

Publication

**EP 1616969 A1 20060118 (FR)**

Application

**EP 05300204 A 20050322**

Priority

FR 0404071 A 20040419

Abstract (en)

Heat treatment of a revolving component, e.g. a toothed wheel, comprises : (a) high frequency induction heating; (b) medium frequency induction heating; (c) quenching. An independent claim is also included for the device used for heat treatment.

IPC 8 full level

**C21D 9/32** (2006.01); **C21D 1/42** (2006.01); **H05B 6/40** (2006.01)

CPC (source: EP)

**H05B 6/405** (2013.01)

Citation (search report)

- [A] EP 0324721 A2 19890719 - CONTOUR HARDENING INVESTORS LT [US]
- [A] EP 1029932 A1 20000823 - RENAULT [FR], et al
- [A] FR 2840150 A1 20031128 - EFD INDUCTION SA [FR], et al
- [A] FR 942688 A 19490215 - RENAULT
- [Y] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 09 30 September 1997 (1997-09-30)
- [Y] PATENT ABSTRACTS OF JAPAN vol. 0152, no. 48 (C - 0843) 25 June 1991 (1991-06-25)

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CN105907926A; CN100460526C

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**FR 2868975 A1 20051021**; **FR 2868975 B1 20070608**; AT E364724 T1 20070715; DE 602005001364 D1 20070726; DE 602005001364 T2 20080214; EP 1616969 A1 20060118; EP 1616969 B1 20070613

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