Title (en)

METHOD AND DEVICE FOR LOCALIZED INDUCTION HARDENING TREATMENT OF MECHANICAL COMPONENTS, SPECIFICALLY THRUST BLOCKS FOR LARGE-SIZED ROLLING BEARINGS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR LOKALISIERTEN INDUKTIONSHÄRTUNGSBEHANDLUNG VON MECHANISCHEN BAUTEILEN, SPEZIFISCH DRUCKLAGERN FÜR GROSSE ROLLENLAGER

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR TRAITEMENT DE DURCISSEMENT PAR INDUCTION LOCALISÉ DE COMPOSANTS MÉCANIQUES, NOTAMMENT DE BLOCS DE POUSSÉE POUR PALIERS À ROULEAU DE GRANDE TAILLE

Publication

EP 2331716 A1 20110615 (EN)

Application

EP 08808194 A 20080715

Priority

IT 2008000475 W 20080715

Abstract (en)

[origin: WO2010007635A1] A method and device for induction hardening rolling tracks (4)of bearing thrust blocks (3). At least two inductors are used (6, 8) initially arranged in tandem, which are held at a prefixed distance from a surface (2) of the track and parallelly to the same; the thrust block (3) is rotated at a first angular speed (V1) with respect to a first inductor (6), held fixed, while a second inductor (8) is rotated in the same direction as the thrust block but at a second angular speed (V2), double the first, so as to leave a first side (22) of the first inductor (6) and, essentially after a complete rotation, arrange itself sided to a second side (23) of the first inductor, on the side opposite to the first; simultaneously, the inductors are electrically fed and at least one cooling shower (13a, b,d), operatively connected to the other inductors (6, 8), is actuated.

IPC 8 full level

C21D 1/10 (2006.01); **C21D 9/40** (2006.01)

CPC (source: EP)

C21D 1/10 (2013.01); **C21D 9/40** (2013.01); C21D 2221/00 (2013.01); Y02P 10/25 (2015.11)

Citation (search report)

See references of WO 2010007635A1

Cited by

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DOCDB simple family (publication)

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