

Title (en)

METHOD FOR PRODUCING A ROLLING BEARING, AND ROLLING BEARING

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES WÄZLAGERS UND WÄZLAGER

Title (fr)

PROCÉDÉ DE FABRICATION D'UN PALIER DE ROULEMENT ET PALIER DE ROULEMENT

Publication

**EP 2828540 A1 20150128 (DE)**

Application

**EP 13702780 A 20130128**

Priority

- DE 102012204409 A 20120320
- EP 2013051601 W 20130128

Abstract (en)

[origin: WO2013139514A1] The invention relates to a method for producing a rolling bearing which has an inner ring (1) with an inner ring raceway (2), an outer ring (3) with an outer ring raceway (4), and rolling bodies (5) which roll on the inner ring raceway (2) and on the outer ring raceway (4). The inner ring (1) is produced from steel and is subjected to a heat treatment which serves for hardening and which is completed with the execution of a final heat treatment step at a predefined temperature. Compressive internal stresses are formed in the inner ring (1) in a surface layer by cold working in the region of the inner ring raceway (2). The inner ring (1) is burnished after the cold working.

IPC 8 full level

**F16C 33/64** (2006.01); **C21D 9/40** (2006.01); **F16C 19/16** (2006.01); **F16C 33/62** (2006.01)

CPC (source: EP US)

**C21D 9/40** (2013.01 - EP); **C22C 1/02** (2013.01 - EP); **F16C 19/16** (2013.01 - EP); **F16C 33/60** (2013.01 - US); **F16C 33/62** (2013.01 - EP); **F16C 33/64** (2013.01 - EP); **F16C 43/04** (2013.01 - US); **F16C 2223/00** (2013.01 - EP); **F16C 2223/10** (2013.01 - EP); **F16C 2223/18** (2013.01 - EP); **F16C 2240/18** (2013.01 - EP); **Y10T 29/49636** (2015.01 - EP US); **Y10T 29/49689** (2015.01 - EP US); **Y10T 29/49707** (2015.01 - EP US); **Y10T 29/49709** (2015.01 - EP US)

Citation (search report)

See references of WO 2013139514A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2013139514 A1 20130926**; EP 2828540 A1 20150128

DOCDB simple family (application)

**EP 2013051601 W 20130128**; EP 13702780 A 20130128