

Title (en)

METHOD FOR PRODUCING A ROLLING BEARING COMPONENT

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES WÄLZLAGERBAUTEILS

Title (fr)

PROCÉDÉ DE FABRICATION D'UN ÉLÉMENT DE PALIER À ROULEMENT

Publication

EP 4274914 A1 20231115 (DE)

Application

EP 21843585 A 20211214

Priority

- DE 102021100210 A 20210108
- DE 102021132703 A 20211210
- DE 2021100998 W 20211214

Abstract (en)

[origin: WO2022148510A1] The invention relates to a method for producing a rolling bearing component (1), wherein the rolling bearing component (1) is formed from a rolling bearing steel and has a wall thickness or a diameter of at least 85 mm at at least one point, wherein the rolling bearing component (1) is heated to form an austenitic joint and is then cooled in a warm salt bath below a martensite start temperature of the rolling bearing steel such that the rolling bearing component (1) is formed having a martensitic joint in an edge layer region of the rolling bearing component (1) and having a joint consisting of perlite and/or of upper bainite in the core region of the rolling bearing component (1). The invention also relates to a rolling bearing component (1) and to a rolling bearing (2).

IPC 8 full level

C21D 1/22 (2006.01); **C21D 1/20** (2006.01); **C21D 9/40** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/18** (2006.01); **C22C 38/22** (2006.01)

CPC (source: EP US)

B21D 53/10 (2013.01 - US); **C21D 1/18** (2013.01 - US); **C21D 1/20** (2013.01 - EP); **C21D 1/22** (2013.01 - EP); **C21D 9/40** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP); **C22C 38/04** (2013.01 - EP); **C22C 38/18** (2013.01 - EP); **C22C 38/22** (2013.01 - EP); **F16C 19/04** (2013.01 - US); **C21D 2211/002** (2013.01 - EP US); **C21D 2211/008** (2013.01 - EP US); **C21D 2211/009** (2013.01 - 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

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022148510 A1 20220714; EP 4274914 A1 20231115; US 2024060531 A1 20240222

DOCDB simple family (application)

DE 2021100998 W 20211214; EP 21843585 A 20211214; US 202118270260 A 20211214