

Title (en)

AXIAL ROLLING CONTACT BEARING, IN PARTICULAR AXIAL DEEP GROOVE BALL BEARING ACTING ON ONE SIDE

Title (de)

AXIALWÄLZLAGER, INSBESONDERE EINSEITIG WIRKENDES AXIAL-RILLENKUGELLAGER

Title (fr)

PALIER À ROULEMENT AXIAL, EN PARTICULIER ROULEMENT RAINURÉ À BILLES AGISSANT D'UN CÔTÉ

Publication

EP 2547922 A1 20130123 (DE)

Application

EP 11701991 A 20110126

Priority

- DE 102010011437 A 20100315
- EP 2011051079 W 20110126

Abstract (en)

[origin: WO2011113637A1] The invention relates to an axial rolling contact bearing (1) which is designed as an axial deep groove ball bearing acting on one side and which has a first circular-ring-shaped bearing disc (2) and a second circular-ring-shaped bearing disc (4) which is arranged at a distance from the former on a common centre axis (3), wherein the inner disc surfaces (6, 7) of the bearing discs (2, 4) are formed with mutually facing, groove-shaped raceways (10, 11), in which a multiplicity of rolling bodies (14), which are arranged in at least one row and are held at uniform distances from one another by at least one bearing cage (13), roll. According to the invention, the outer disc surfaces (5, 8) of the two bearing discs (2, 4) are formed with further groove-shaped raceways (9, 12) which are identical in position, diameter and groove depth to the raceways (10, 11) on the inner disc surfaces (6, 7) of said bearing discs and by means of which the bearing discs (2, 4) can be fitted, irrespective of a certain allocation during installation, at a designated bearing point either as a first or second bearing disc (2 or 4) and, in every possible fitting position with respect to each other, have the necessary number of mutually facing raceways (10, 11) for the rolling bodies (14).

IPC 8 full level

F16C 19/10 (2006.01); **F16C 33/58** (2006.01); **F16C 43/04** (2006.01)

CPC (source: EP)

F16C 19/10 (2013.01); **F16C 33/586** (2013.01); **F16C 43/04** (2013.01); **F16C 2362/00** (2013.01)

Citation (search report)

See references of WO 2011113637A1

Citation (examination)

EP 0319842 A1 19890614 - SCHAEFFLER WÄLZLAGER KG [DE]

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

DOCDB simple family (publication)

DE 102010011437 A1 20110915; DE 102010011437 B4 20111208; BR 112012020573 A2 20170613; CN 102792035 A 20121121; CN 102792035 B 20160120; EP 2547922 A1 20130123; JP 2013522558 A 20130613; JP 5939993 B2 20160629; RU 2012143716 A 20140420; RU 2561652 C2 20150827; WO 2011113637 A1 20110922

DOCDB simple family (application)

DE 102010011437 A 20100315; BR 112012020573 A 20110126; CN 201180014082 A 20110126; EP 11701991 A 20110126; EP 2011051079 W 20110126; JP 2012557458 A 20110126; RU 2012143716 A 20110126