

Title (en)
BEARING ASSEMBLY

Title (de)
LAGERANORDNUNG

Title (fr)
ENSEMBLE PALIER

Publication
EP 2691663 A1 20140205 (DE)

Application
EP 12713642 A 20120322

Priority
• DE 102011006466 A 20110331
• DE 102011076107 A 20110519
• EP 2012055043 W 20120322

Abstract (en)
[origin: WO2012130700A1] The invention relates to a bearing assembly (1) comprising two tapered roller bearings (2, 3), each having an inner ring (4, 5), an outer ring (6, 7) and tapered rollers (8, 9) arranged between the rings, wherein the inner rings (4, 5) are mounted in or on a first machine part (10), in particular a shaft, and wherein the outer rings (6, 7) are mounted in or on a second machine part (11), in particular a housing. In order to automatically build a preload in the bearing assembly at an increased operating temperature, according to the invention the outer rings (6, 7) or the inner rings (4, 5) are arranged with a cylindrical seat (11, 12) on an adapter sleeve (14) that carries the rings and has a cylindrical counter-seat (15), wherein the one bearing ring (7) arranged on the adapter sleeve (14) is seated directly or indirectly against an axial stop (16) of the first or second machine part (10, 11), wherein the other bearing ring (6) arranged on the adapter sleeve (14) is seated against an axial stop (17) of the adapter sleeve (14), wherein the axial stop (17) of the adapter sleeve (14) is formed by a radially enlarged or reduced section (18) of the adapter sleeve (14), wherein the section (18) on the side facing away from the bearing ring (6) has an end face (19) that is located opposite an axial stop (20) on the first or second machine part (10, 11).

IPC 8 full level
F16C 19/54 (2006.01); **F16C 35/077** (2006.01)

CPC (source: EP US)
F16C 17/22 (2013.01 - US); **F16C 19/364** (2013.01 - EP US); **F16C 19/525** (2013.01 - EP US); **F16C 19/54** (2013.01 - US); **F16C 19/542** (2013.01 - EP US); **F16C 25/08** (2013.01 - EP US); **F16C 25/083** (2013.01 - EP); **F16C 27/04** (2013.01 - EP US); **F16C 33/66** (2013.01 - US); **F16C 35/077** (2013.01 - EP US); **F16C 2229/00** (2013.01 - US); **F16C 2300/02** (2013.01 - US); **F16C 2300/14** (2013.01 - EP); **F16C 2360/31** (2013.01 - EP US)

Citation (search report)
See references of WO 2012130700A1

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 102011076107 A1 20121004; CN 103562575 A 20140205; CN 103562575 B 20160217; EP 2691663 A1 20140205; US 2014334756 A1 20141113; US 9103369 B2 20150811; WO 2012130700 A1 20121004

DOCDB simple family (application)
DE 102011076107 A 20110519; CN 201280025781 A 20120322; EP 12713642 A 20120322; EP 2012055043 W 20120322; US 201214008621 A 20120322