

Title (en)
ROLLING BEARING

Title (de)
WÄLZLAGER

Title (fr)
PALIER À ROULEMENT

Publication
EP 3060820 A1 20160831 (DE)

Application
EP 14799329 A 20140930

Priority
• DE 102013221685 A 20131025
• DE 2014200522 W 20140930

Abstract (en)
[origin: WO2015058758A1] A rolling bearing (1) comprises balls (4) made of a shape memory alloy, in particular Nitinol 60, as rolling elements which roll on at least one bearing ring (2, 3) comprising a groove-shaped raceway (5). The balls (4) contact the raceway (5) with at least 108% osculation.

IPC 8 full level
F16C 33/32 (2006.01); **F16C 19/06** (2006.01)

CPC (source: EP US)
F16C 19/06 (2013.01 - EP US); **F16C 33/32** (2013.01 - EP US); **F16C 33/583** (2013.01 - US); **F16C 33/585** (2013.01 - EP US); **F16C 2202/28** (2013.01 - EP US); **F16C 2204/52** (2013.01 - EP US); **F16C 2240/76** (2013.01 - EP US); **F16C 2326/00** (2013.01 - EP US); **F16C 2326/30** (2013.01 - EP US)

Citation (search report)
See references of WO 2015058758A1

Citation (examination)
• WO 2013135253 A1 20130919 - SKF AB [SE], et al
• STEPHEN V PEPPER: "Nitinol 60 as a Material For Spacecraft Triboelements", 23 September 2009 (2009-09-23), pages 6133 - 100, XP055360641, Retrieved from the Internet <URL:https://ntrs.nasa.gov/archive/nasa/casi.ntrs.nasa.gov/20090034488.pdf> [retrieved on 20170331]

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)
DE 102013221685 A1 20150430; EP 3060820 A1 20160831; US 2016273584 A1 20160922; WO 2015058758 A1 20150430

DOCDB simple family (application)
DE 102013221685 A 20131025; DE 2014200522 W 20140930; EP 14799329 A 20140930; US 201415031472 A 20140930