

Title (en)

METHOD FOR MEASURING A PRELOADING FORCE AND BEARING ASSEMBLY FOR PERFORMING THE METHOD

Title (de)

VERFAHREN ZUR MESSUNG EINER VORSPANNKRAFT UND LAGERANORDNUNG ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)

PROCÉDÉ DE MESURE D'UNE FORCE DE PRÉCONTRAINTÉ ET ENSEMBLE PALIER POUR LA MISE EN OEUVRE DE CE PROCÉDÉ

Publication

EP 3063424 A1 20160907 (DE)

Application

EP 14781051 A 20140820

Priority

- DE 102013221942 A 20131029
- DE 2014200414 W 20140820

Abstract (en)

[origin: WO2015062593A1] The invention relates to a method for determining at least one preloading force (K) acting between a carrying body (7) and a rolling-element bearing (2) of a bearing assembly (1), which rolling-element bearing is mounted on the carrying body, wherein the bearing assembly comprises the rolling-element bearing and the at least one sensor device (3), wherein the sensor device is arranged in or on the rolling-element bearing in an installation position (E1) and is coupled to an evaluating device (10) in a signalling manner, wherein the sensor device senses the preloading force, produces at least one signal (S) in accordance with the preloading force, and transmits the signal to the evaluating device, wherein the evaluating device evaluates the signal in order to measure the preloading force and the sensor device is permanently decoupled from the evaluating device after the evaluation of the signal.

IPC 8 full level

F16C 41/00 (2006.01); **F16C 19/52** (2006.01); **F16C 33/58** (2006.01)

CPC (source: CN EP US)

F16C 19/522 (2013.01 - CN EP US); **F16C 33/585** (2013.01 - EP US); **F16C 41/00** (2013.01 - US); **F16C 41/007** (2013.01 - CN EP US); **F16C 41/008** (2013.01 - CN EP US); **F16C 2208/34** (2013.01 - CN EP US); **F16C 2229/00** (2013.01 - CN EP US); **F16C 2240/14** (2013.01 - CN EP US)

Citation (search report)

See references of WO 2015062593A1

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 102013221942 A1 20150430; CN 105658970 A 20160608; CN 105658970 B 20190308; EP 3063424 A1 20160907; US 2016215816 A1 20160728; US 9915287 B2 20180313; WO 2015062593 A1 20150507

DOCDB simple family (application)

DE 102013221942 A 20131029; CN 201480058563 A 20140820; DE 2014200414 W 20140820; EP 14781051 A 20140820; US 201414913535 A 20140820