

Title (en)

METHOD FOR DETECTING A TORQUE APPLIED TO A SHAFT

Title (de)

VERFAHREN ZUM ERFASSEN EINES AN EINER WELLE ANLIEGENDEN DREHMOMENTS

Title (fr)

PROCÉDÉ PERMETTANT DE DÉTECTER UN COUPLE APPLIQUÉ SUR UN ARBRE

Publication

EP 2936097 A1 20151028 (DE)

Application

EP 13815441 A 20131213

Priority

- DE 102012224180 A 20121221
- DE 102012224187 A 20121221
- EP 2013076587 W 20131213

Abstract (en)

[origin: WO2014095652A1] The invention relates to a method for detecting a phase angle difference (74) between a first periodic measurement signal (50) and a second periodic measurement signal (54), wherein, for the purpose of determining a torque (28) applied to a shaft (6), the two periodic measurement signals (70, 72) describe a rotation of the shaft (6) at an axial distance from one another, comprising: superimposing a periodic auxiliary signal (62) which simulates a previously known rotational speed for the shaft (6) on the first periodic measurement signal (50) in order to form a superimposition signal (70), and determining the phase angle difference (74) on the basis of the superimposition signal (70) and the second measurement signal (54).

IPC 8 full level

G01L 3/10 (2006.01)

CPC (source: EP US)

B62D 6/10 (2013.01 - EP US); **B62D 15/0215** (2013.01 - EP US); **G01L 3/101** (2013.01 - US); **G01L 3/109** (2013.01 - EP US)

Citation (search report)

See references of WO 2014095652A1

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 102013225930 A1 20140626; CN 105074406 A 20151118; CN 105074406 B 20170412; EP 2936097 A1 20151028; KR 102100530 B1 20200413; KR 20150097678 A 20150826; US 2015362388 A1 20151217; US 9897498 B2 20180220; WO 2014095652 A1 20140626

DOCDB simple family (application)

DE 102013225930 A 20131213; CN 201380073477 A 20131213; EP 13815441 A 20131213; EP 2013076587 W 20131213; KR 20157019167 A 20131213; US 201314653533 A 20131213