

Title (en)  
METHOD AND DEVICE FOR ESTIMATING FORCE

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR SCHÄTZUNG EINER KRAFT

Title (fr)  
PROCEDE ET DISPOSITIF D'ESTIMATION DE FORCE

Publication  
**EP 3504633 A1 20190703 (FR)**

Application  
**EP 17768178 A 20170824**

Priority  
• FR 1657939 A 20160825  
• FR 2017052269 W 20170824

Abstract (en)  
[origin: WO2018037191A1] The invention relates to a method for estimating a periodic or substantially periodic force present in a mechanical or electromechanical system, the method comprising: estimating, by a processing device, one or more harmonic frequencies of an acceleration signal representing an acceleration in the system, the substantially periodic force contributing to said acceleration; and estimating, by the processing device, the force on the basis of a dynamic model of the system, the dynamic model being defined by said one or more estimated harmonic frequencies.

IPC 8 full level  
**G06F 17/10** (2006.01); **B62M 6/00** (2010.01); **F03D 7/00** (2006.01); **H02P 21/18** (2016.01); **H02P 29/00** (2016.01)

CPC (source: EP US)  
**B62J 45/20** (2020.02 - EP US); **B62M 6/50** (2013.01 - EP US); **B62M 6/55** (2013.01 - EP US); **F03D 7/00** (2013.01 - EP US); **F03D 7/045** (2013.01 - US); **G06F 17/10** (2013.01 - EP US); **G06F 17/11** (2013.01 - US); **H02P 21/18** (2016.02 - US); **H02P 23/20** (2016.02 - EP US); **H02P 29/00** (2013.01 - US); **H02P 29/0016** (2013.01 - US); **F05B 2260/8211** (2013.01 - EP US); **Y02E 10/72** (2013.01 - EP US)

Citation (search report)  
See references of WO 2018037191A1

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)  
**WO 2018037191 A1 20180301**; EP 3504633 A1 20190703; FR 3055440 A1 20180302; FR 3055440 B1 20180928; JP 2019534997 A 20191205; JP 6978490 B2 20211208; US 11572122 B2 20230207; US 2019188235 A1 20190620

DOCDB simple family (application)  
**FR 2017052269 W 20170824**; EP 17768178 A 20170824; FR 1657939 A 20160825; JP 2019511534 A 20170824; US 201716328059 A 20170824