

Title (en)
METHOD AND ARRANGEMENT FOR MONITORING GEARWHEELS DURING OPERATION

Title (de)
VERFAHREN UND ANORDNUNG ZUR ÜBERWACHUNG VON ZAHNRÄDERN IM BETRIEB

Title (fr)
PROCÉDÉ ET SYSTÈME DESTINÉS À SURVEILLER DES ENGRENAGES EN MARCHÉ

Publication
EP 2737289 A1 20140604 (DE)

Application
EP 12769958 A 20120905

Priority
• DE 102011083858 A 20110930
• EP 2012067318 W 20120905

Abstract (en)
[origin: WO2013045245A1] The invention relates to a method for monitoring gearwheels during operation using at least one magneto-elastic sensor (1), which measures without contact, for recording changes in permeability when mechanical stresses are present in the gearwheel, wherein the positioning of the at least one magneto-elastic sensor (1) on the gearwheel to be monitored is such that said sensor grasps the gearwheel in the region where high stresses occur and forces can be determined by measuring changes in permeability. Use: contactless determination of data on gearwheels.

IPC 8 full level
G01L 1/12 (2006.01); **G01M 13/02** (2006.01)

CPC (source: EP US)
G01L 1/12 (2013.01 - US); **G01L 1/125** (2013.01 - EP US); **G01M 13/021** (2013.01 - EP US)

Citation (search report)
See references of WO 2013045245A1

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)
WO 2013045245 A1 20130404; CN 103827648 A 20140528; DE 102011083858 A1 20130404; EP 2737289 A1 20140604;
US 2014224031 A1 20140814

DOCDB simple family (application)
EP 2012067318 W 20120905; CN 201280046920 A 20120905; DE 102011083858 A 20110930; EP 12769958 A 20120905;
US 201214348400 A 20120905