

Title (en)
METHOD FOR REDUCING THE NOISE EMISSION OF A TRANSFORMER

Title (de)
VERFAHREN ZUR REDUKTION DER GERÄUSCHEMISSION EINES TRANSFORMATORS

Title (fr)
PROCÉDÉ DE RÉDUCTION DE L'ÉMISSION DE BRUIT D'UN TRANSFORMATEUR

Publication
EP 2457240 B1 20180103 (DE)

Application
EP 09781032 A 20090724

Priority
EP 2009059557 W 20090724

Abstract (en)
[origin: WO2011009491A1] The invention relates to a method for reducing the noise emission of a transformer, the transformer tank of which is filled with liquid and the tank wall of which vibrates during operation, characterized by the sequence of the following method steps: a.) detecting natural frequency values of the tank wall for at least one excitation frequency; b.) determining at least one eigenmode for which the vibration of the tank wall is composed at an excitation frequency, from the natural frequency values, wherein areas of large curvature are determined on the tank wall; c.) arranging at least one vibration loading device in at least one of said areas; d.) controlling the at least one vibration loading device by means of a control device in order to counteract the vibration of the tank wall.

IPC 8 full level
H01F 27/33 (2006.01); **G10K 11/16** (2006.01); **G10K 11/178** (2006.01)

CPC (source: EP US)
G10K 11/17857 (2017.12 - EP US); **G10K 11/1787** (2017.12 - EP US); **H01F 27/33** (2013.01 - EP US)

Designated contracting state (EPC)
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 SE SI SK SM TR

DOCDB simple family (publication)
WO 2011009491 A1 20110127; EP 2457240 A1 20120530; EP 2457240 B1 20180103; US 2012121101 A1 20120517; US 9020156 B2 20150428

DOCDB simple family (application)
EP 2009059557 W 20090724; EP 09781032 A 20090724; US 200913386672 A 20090724