

Title (en)
HORN DEVICE

Title (de)
HORNVORRICHTUNG

Title (fr)
DISPOSITIF AVERTISSEUR

Publication
EP 3382691 A1 20181003 (EN)

Application
EP 18163396 A 20180322

Priority
JP 2017068289 A 20170330

Abstract (en)
A horn device (A), which is capable of preventing production of abnormal noise is provided. The horn device (A) which resonates, by a resonator (1), sound produced by vibrating a diaphragm (21) and comprises: a control part (34), which vibrates the diaphragm (21); a temperature measurement part (30), which measures the temperature inside the horn device (A); and a voltage measurement part (31), which measures the voltage value used to vibrate the diaphragm (21); wherein the control part (34) deviates a vibration frequency which vibrates the diaphragm (21) from a resonance frequency (fc) according to at least any of the temperature measured by the temperature measurement part (30) and the voltage value measured by the voltage measurement part (31).

IPC 8 full level
G10K 9/18 (2006.01); **G10K 9/13** (2006.01)

CPC (source: CN EP)
G10K 9/13 (2013.01 - EP); **G10K 9/18** (2013.01 - EP); **H04R 9/02** (2013.01 - CN); **H04R 9/06** (2013.01 - CN); **H04R 2400/11** (2013.01 - CN)

Citation (applicant)
JP 2017009624 A 20170112 - MITSUBA CORP

Citation (search report)

- [X1] EP 2887346 A1 20150624 - WAN YU [CN]
- [A] WO 2007076666 A1 20070712 - ZHAO HONGWEI [CN]
- [A] EP 0576216 A2 19931229 - STAR MFG CO [JP]
- [A] WO 9811666 A1 19980319 - BOSCH GMBH ROBERT [DE], et al

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)
EP 3382691 A1 20181003; **EP 3382691 B1 20210526**; CN 108696802 A 20181023; CN 108696802 B 20210219; JP 2018173637 A 20181108

DOCDB simple family (application)
EP 18163396 A 20180322; CN 201810242892 A 20180322; JP 2018064739 A 20180329