

Title (en)  
HORN DEVICE

Title (de)  
HORNVORRICHTUNG

Title (fr)  
DISPOSITIF AVERTISSEUR

Publication  
**EP 3471087 A1 20190417 (EN)**

Application  
**EP 18198613 A 20181004**

Priority  
• JP 2017196521 A 20171010  
• JP 2017196522 A 20171010

Abstract (en)  
A horn device (10) includes a third rivet (RV3) whose one end side is connected to a conductive member (54), whose other end side is exposed outside a case (21), and which fixes a coil bobbin (40) to the case, and this third rivet is used for communication with an IC chip (51) and an adjuster (AD). Consequently, an increase in the number of components is suppressed and a structure of the device is made uncomplicated, so that the horn device can communicate with the internal IC chip from outside without resolving the horn device. Therefore, even when the horn device does not sound for any reasons, whether the IC chip operates normally can be confirmed quickly and easily from outside. Thus, the horn device excellent in maintainability can be realized.

IPC 8 full level  
**G10K 9/13** (2006.01); **G10K 9/22** (2006.01)

CPC (source: CN EP)  
**G10K 9/13** (2013.01 - CN EP); **G10K 9/22** (2013.01 - EP)

Citation (applicant)  
• JP 2003122369 A 20030425 - MIYAMOTO KEIHOUEI KK  
• ES 2376690 A1 20120316 - NAGARES SA [ES]

Citation (search report)  
• [Y] US 5414406 A 19950509 - BAXTER MELBURN J [US]  
• [YDA] ES 2376690 A1 20120316 - NAGARES SA [ES]  
• [YA] JP 2016218110 A 20161222 - HAMANAKO DENSO CO LTD

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 3471087 A1 20190417**; CN 109658912 A 20190419

DOCDB simple family (application)  
**EP 18198613 A 20181004**; CN 201811052527 A 20180910