

Title (en)
WIRELESS DEVICE

Title (de)
DRAHTLOSE VORRICHTUNG

Title (fr)
DISPOSITIF SANS FIL

Publication
EP 2863474 A4 20150527 (EN)

Application
EP 13804999 A 20130605

Priority
• JP 2012135692 A 20120615
• JP 2013003534 W 20130605

Abstract (en)
[origin: EP2863474A1] A gas meter includes a metal housing (410), a radiation conductor (440) configured to radiate a radio wave which is a high frequency signal, and a circuit board (441) having a power supply circuit (445) configured to supply high frequency power to the radiation conductor (440). A ground of the circuit board (441), i.e., a ground of the power supply circuit (445) is in electrical connection to the metal housing (410) via a lead wire (443) and one screw (423). A power supply point (442) for the radiation conductor (440) is located in a corner portion of the metal housing (410).

IPC 8 full level
H01Q 1/24 (2006.01); **H01Q 9/38** (2006.01)

CPC (source: EP)
H01Q 1/2233 (2013.01); **H01Q 9/0421** (2013.01); **H01Q 9/42** (2013.01)

Citation (search report)
• [X] WO 2012070242 A1 20120531 - PANASONIC CORP [JP], et al & EP 2645480 A1 20131002 - PANASONIC CORP [JP]
• [E] EP 2833476 A1 20150204 - PANASONIC CORP [JP]
• [X] JP H09232841 A 19970905 - MATSUSHITA ELECTRIC IND CO LTD
• [A] US 2012062428 A1 20120315 - IMANO DAIGO [JP], et al
• [A] "Printed Antennas for Wireless Communications", 1 January 2007, HALL, PETER S., Hoboken, NJ, USA, ISBN: 978-0-47-051069-8, article PETER S. HALL ET AL: "Planar Inverted-F Antennas", pages: 197 - 227, XP055180071
• [A] "The ARRL Antenna Book, 21st Edition", 1 May 2007, AMERICAN RADIO RELAY LEAGUE, Newington, CT, USA, ISBN: 978-0-87-259987-1, article DEAN R. STRAW: "The Effects of Ground", pages: 3-1 - 3-32, XP055183809
• See references of WO 2013187013A1

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 2863474 A1 20150422; EP 2863474 A4 20150527; CN 104364963 A 20150218; JP WO2013187013 A1 20160204;
WO 2013187013 A1 20131219

DOCDB simple family (application)
EP 13804999 A 20130605; CN 201380031678 A 20130605; JP 2013003534 W 20130605; JP 2014520907 A 20130605