

Title (en)
METER AND METHOD FOR DETERMINING METER READINGS AND METHOD FOR THE WIRELESS TRANSMISSION OF ELECTRICAL ENERGY

Title (de)
ZÄHLER UND VERFAHREN ZUR ERMITTLUNG VON ZÄHLERSTÄNDEN UND VERFAHREN ZUR DRAHTLOSEN ÜBERTRAGUNG VON ELEKTRISCHER ENERGIE

Title (fr)
COMPTEUR ET PROCÉDÉ DE DÉTERMINATION D'ÉTATS DE COMPTEUR ET PROCÉDÉ DE TRANSMISSION SANS FIL D'ÉNERGIE ÉLECTRIQUE

Publication
EP 3227648 A1 20171011 (DE)

Application
EP 15804470 A 20151202

Priority
• EP 14196248 A 20141204
• EP 2015078429 W 20151202

Abstract (en)
[origin: WO2016087553A1] The invention relates to a meter comprising a hermetically encapsulated electronic metering mechanism having at least one meter unit for the determination of meter readings, wherein the hermetically encapsulated electronic metering mechanism comprises a data memory for storing the meter readings, and the metering unit comprises an antenna of a defined shape, and at least one readout unit is arranged outside the hermetically encapsulated electronic metering mechanism for reading the meter readings from the data memory. The invention further relates to a method for the determination of meter readings and for the wireless transmission of electrical energy. The shape of the antenna of the readout unit is identical to the antenna shape of the metering unit, wherein the congruent and predefined positioning of the antenna of the readout unit ensures an effective wireless energy supply to the metering unit by means of electromagnetic radiation through the readout unit, and, independently thereof, a stable wireless data coupling for the determination of meter readings between the metering unit and the readout unit.

IPC 8 full level
G01F 15/06 (2006.01); **G01D 4/00** (2006.01); **G01F 15/07** (2006.01); **G01F 15/075** (2006.01)

CPC (source: EP US)
G01D 4/00 (2013.01 - EP US); **G01F 15/063** (2013.01 - EP US); **G01F 15/07** (2013.01 - EP US); **G01F 15/0755** (2013.01 - EP US); **G01R 15/26** (2013.01 - US); **H04Q 9/00** (2013.01 - EP); **Y02B 90/20** (2013.01 - EP US); **Y04S 20/30** (2013.01 - EP US)

Citation (search report)
See references of WO 2016087553A1

Citation (examination)
• EP 0457306 A2 19911121 - GAS ELEKTRIZITAETS UND WASSERW [DE]
• US 4758836 A 19880719 - SCUILLI FELICE M [US]

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 3029431 A1 20160608; EP 3227648 A1 20171011; US 10114045 B2 20181030; US 2017328938 A1 20171116; WO 2016087553 A1 20160609

DOCDB simple family (application)
EP 14196248 A 20141204; EP 15804470 A 20151202; EP 2015078429 W 20151202; US 201515533192 A 20151202