

Title (en)

Improved current transformer shield for an electronic watt-hour meter

Title (de)

Verbesserte Stromwandlerabschirmung für einen elektronischen Wattstundenzähler

Title (fr)

Blindage de transformateur de courant amélioré pour un watt-heuremètre électronique

Publication

EP 2996121 A1 20160316 (EN)

Application

EP 14184053 A 20140909

Priority

EP 14184053 A 20140909

Abstract (en)

The present invention relates to a watt-hour meter (1) for measuring usage of electricity, said watt-hour meter (1) comprising at least one current transformer (2) having a magnetic core (2) encircling a line conductor (4) and through the windings of which a current flow is induced in response to a magnetic field being induced by a current flow through said line conductor (4), said watt-hour meter (1) further comprising a magnetic shield (6) for shielding said at least one current transformer (2) against external magnetic fields.

IPC 8 full level

H01F 27/36 (2006.01); **H01F 38/30** (2006.01)

CPC (source: EP US)

H01F 27/36 (2013.01 - EP); **H01F 27/366** (2020.08 - EP US); **H01F 38/30** (2013.01 - EP); **H01F 2038/305** (2013.01 - EP)

Citation (applicant)

- EP 2458599 A1 20120530 - GEN ELECTRIC [US]
- WO 2010063760 A1 20100610 - BSH BOSCH SIEMENS HAUSGERAETE [DE], et al

Citation (search report)

- [XDI] EP 2458599 A1 20120530 - GEN ELECTRIC [US]
- [XI] US 5828282 A 19981027 - TIEMANN JEROME JOHNSON [US]
- [XI] JP S6417414 A 19890120 - FUJI ELECTRIC CO LTD
- [X] CN 201430074 Y 20100324 - DEQING GIG ELECTRONIC CO LTD

Cited by

CN115497731A; CN109581026A

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)

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