

Title (en)

SYSTEM AND METHOD FOR GENERATING AND HARVESTING ELECTRICAL ENERGY FROM A WASHING MACHINE

Title (de)

SYSTEM UND VERFAHREN ZUR ERZEUGUNG UND GEWINNUNG VON ELEKTRISCHER ENERGIE AUS EINER WASCHMASCHINE

Title (fr)

SYSTÈME ET PROCÉDÉ DE PRODUCTION ET DE RÉCUPÉRATION D'ÉNERGIE ÉLECTRIQUE À PARTIR D'UNE MACHINE À LAVER

Publication

**EP 3372725 A1 20180912 (EN)**

Application

**EP 17159959 A 20170308**

Priority

EP 17159959 A 20170308

Abstract (en)

System (100, 200) for generating and harvesting electrical energy from a washing machine (106) including a permanent magnet (102), an induction coil (108) and a wireless charging device (112), wherein the permanent magnet (102) is placed around a washing tub (104) of the washing machine (106) and, wherein the permanent magnet (102) generates a magnetic field, the induction coil (108) is placed inside of the washing tub (104) of the washing machine (106) and the induction coil (108) is configured to generate an induced current when the washing tub (104) rotates in the magnetic field generated by the permanent magnet; said wireless charging device (112) being operatively coupled to the induction coil (108) and comprises an inductive antenna configured to transfer the induced current generated in the induction coil (108) to a storage device (314).

IPC 8 full level

**D06F 39/00** (2006.01)

CPC (source: EP US)

**D06F 39/20** (2024.01 - EP US)

Citation (applicant)

- WO 2010111376 A1 20100930 - BHAT NIKHIL [US], et al
- WO 2015092646 A1 20150625 - INDESIT CO SPA [IT]

Citation (search report)

- [IA] US 2012192362 A1 20120802 - LEE DONG SOO [KR], et al
- [A] WO 2013022164 A2 20130214 - LG ELECTRONICS INC [KR], et al
- [A] DE 102014013717 A1 20160317 - DIEHL AKO STIFTUNG GMBH & CO [DE]
- [A] WO 2013087774 A1 20130620 - BSH BOSCH SIEMENS HAUSGERAETE [DE], et al

Cited by

CN112111908A; CN112609400A

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 3372725 A1 20180912; EP 3372725 B1 20231018**; TR 201704553 A2 20180921

DOCDB simple family (application)

**EP 17159959 A 20170308**; TR 201704553 A 20170327