

Title (en)

WIRELESS INDUCTIVE CHARGING OF WEAPON SYSTEM ENERGY SOURCE

Title (de)

DRAHTLOSE INDUKTIVE LADUNG EINER WAFFENSYSTEMENERGIEQUELLE

Title (fr)

CHARGEMENT SANS FIL PAR INDUCTION D'UNE SOURCE D'ÉNERGIE D'UN SYSTÈME D'ARME

Publication

EP 2981783 A4 20161207 (EN)

Application

EP 14778383 A 20140407

Priority

- US 201361809017 P 20130405
- CA 2014000334 W 20140407

Abstract (en)

[origin: WO2014161083A1] A charging system for the wireless inductive charging of an energy source in a weapon in a weapon system. The charging system includes a first portion of the weapon system, wherein the first portion has a first inductive coil therein, and a female receiver sized for receiving, in a male-female mating engagement, the first portion of the weapon system. The receiver has a second inductive coil positioned to inductively couple with the first inductive coil when the first portion of the weapon system is in the male-female mating engagement with the receiver. The first inductive coil is adapted for electrical connection to a weapon system platform electrical power supply and has a direct current resistance of less than or equal to substantially 0.2 Ohms so as to be adapted to provide charging power having a peak power of at least substantially 10 watts.

IPC 8 full level

F41A 35/00 (2006.01); **F41A 23/26** (2006.01); **F41C 27/00** (2006.01); **H02J 5/00** (2016.01); **H02J 7/02** (2006.01)

CPC (source: EP US)

F41A 35/00 (2013.01 - EP); **F41C 23/22** (2013.01 - EP US); **F41C 27/00** (2013.01 - EP); **H02J 7/00034** (2020.01 - EP US); **H02J 50/12** (2016.02 - EP US); **H02J 50/70** (2016.02 - EP US); **H02J 50/80** (2016.02 - EP US); **F41G 11/003** (2013.01 - EP)

Citation (search report)

- [XYI] US 2011083547 A1 20110414 - SCHNEIDER ARTHUR J [US], et al
- [Y] CN 202599233 U 20121212 - XI AN HUANIC OPTOELECTRONIC & US 2013234657 A1 20130912 - SUN JIANHUA [CN], et al
- [Y] WO 2011091528 A1 20110804 - CYNETIC DESIGNS LTD [CA], et al
- [Y] WO 2010132578 A1 20101118 - KIMBALL INT [US], et al
- [Y] US 2012181855 A1 20120719 - HUNT STEVEN E [US], et al
- [Y] GB 1082070 A 19670906 - SUNBEAM CORP
- See references of WO 2014161083A1

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

DOCDB simple family (publication)

WO 2014161083 A1 20141009; AU 2014247687 A1 20151119; AU 2014247687 B2 20170216; CA 2908702 A1 20141009; CA 2908702 C 20210413; EP 2981783 A1 20160210; EP 2981783 A4 20161207

DOCDB simple family (application)

CA 2014000334 W 20140407; AU 2014247687 A 20140407; CA 2908702 A 20140407; EP 14778383 A 20140407