

Title (en)
INTERFACE FOR TRANSFERRING POWER AND DATA BETWEEN A NON-ROTATING BODY AND A ROTATING BODY

Title (de)
SCHNITTSTELLE ZUR ÜBERTRAGUNG VON STROM UND DATEN ZWISCHEN EINEM NICHTROTIERENDEN KÖRPER UND EINEM ROTIERENDEN KÖRPER

Title (fr)
INTERFACE PERMETTANT DE TRANSFÉRER DE L'ÉNERGIE ET DES DONNÉES ENTRE UN CORPS NON ROTATIF ET UN CORPS ROTATIF

Publication
EP 3563467 A1 20191106 (EN)

Application
EP 17835971 A 20171220

Priority

- US 201662440671 P 20161230
- US 201662440683 P 20161230
- US 201715487110 A 20170413
- US 201715487044 A 20170413
- US 2017067553 W 20171220

Abstract (en)
[origin: CN110226276A] An interface for transferring power and data between a non-rotating body and a rotating body may include a power transfer device coupled to the non-rotating body, and a power receiver coupled to the rotating body and configured to receive electrical power from the power transfer device. The interface may further include a first data transmitter coupled to the rotating body, and a first data receiver coupled to the non-rotating body and configured to receive data signals from the first data transmitter. The interface may also include a second data transmitter coupled to the non-rotating body, and a second data receiver coupled to the rotating body and configured to receive data signals from the second data transmitter. The wireless coupling between the power transfer device and the power receiver may include an inductive coupling, and the first data transmitter and the first data receiver may each include an optical communication device.

IPC 8 full level
H02J 50/10 (2016.01); **G01S 17/88** (2006.01); **H02J 50/80** (2016.01); **H04B 5/00** (2006.01)

CPC (source: EP)
G01S 7/481 (2013.01); **G01S 7/4813** (2013.01); **G01S 7/4817** (2013.01); **H02J 50/10** (2016.02); **H02J 50/80** (2016.02); **H04B 5/24** (2024.01); **H04B 5/72** (2024.01); **H04B 5/79** (2024.01); **G01S 7/003** (2013.01); **G01S 17/931** (2020.01)

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)
CN 110226276 A 20190910; CN 110226276 B 20240514; EP 3563467 A1 20191106; JP 2020504594 A 20200206; JP 7308757 B2 20230714

DOCDB simple family (application)
CN 201780081369 A 20171220; EP 17835971 A 20171220; JP 2019556789 A 20171220