



(51) International Patent Classification:

H01F 27/10 (2006.01) *H01F* 27/28 (2006.01)
B60L 11/18 (2006.01) *H01F* 38/14 (2006.01)

(21) International Application Number:

PCT/EP2015/069526

(22) International Filing Date:

26 August 2015 (26.08.2015)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

1415056.9 26 August 2014 (26.08.2014) GB

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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY,
BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR,
KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG,
MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM,
PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC,
SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ,
TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU,
TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE,
DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,
LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK,
SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

Published:

— with international search report (Art. 21(3))

(54) Title: A RECEIVING DEVICE FOR RECEIVING A MAGNETIC FIELD AND FOR PRODUCING ELECTRIC ENERGY BY MAGNETIC INDUCTION, IN PARTICULAR FOR USE BY A VEHICLE

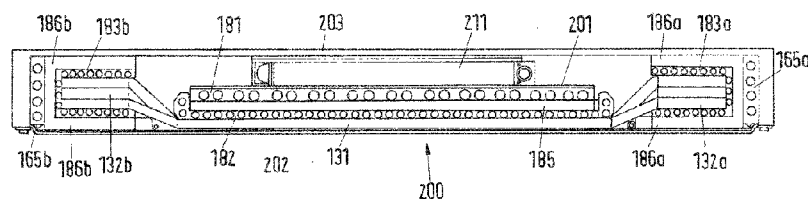


Fig. 11

(57) Abstract: The invention relates to a receiving device (200) for receiving a magnetic field and for producing electric energy by magnetic induction, in particular for use by a vehicle, wherein – the receiving device (200) comprises at least one coil (131) of at least one electric line and wherein the magnetic field induces an electric voltage in the at least one coil (131) during operation, – the receiving device (200) and the at least one coil (131) are adapted to receive the magnetic field from a receiving side of the receiving device (200), – the receiving device (200) comprises a first field shaping arrangement (185) comprising magnetizable material adapted to shape magnetic field lines of the magnetic field, – the first field shaping arrangement (185) is placed behind the at least one coil (131), if viewed from the receiving side of the receiving device (200), – the receiving device (200) comprises a capacitor arrangement (211) comprising at least one capacitor (115), which is electrically connected to the at least one coil (131), – the capacitor arrangement (211) is placed behind the first field shaping arrangement (185), if viewed from the receiving side of the receiving device (200), – the receiving device (200) comprises a first cooling structure (181) comprising conduits for guiding a flow of a cooling fluid in order to cool the receiving device (200), – the first cooling structure (181) is placed in between the first field shaping arrangement (185) and the capacitor arrangement (211).