



- (51) International Patent Classification:
H02J 5/00 (2006.01)
- (21) International Application Number:
PCT/EP2014/058256
- (22) International Filing Date:
23 April 2014 (23.04.2014)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
13165635.7 26 April 2013 (26.04.2013) EP
- (71) Applicant: **USE SYSTEM ENGINEERING HOLDING B.V.** [NL/NL]; Industriestraat 77, NL-7482 EW Haaksbergen (NL).
- (72) Inventors: **VENDERBOSCH, Herbert**; Koningin Wilhelminalaan 26, NL-7437 XS Bathmen (NL). **KASPERS, Raymond**; S.L. Louwesstraat 133, NL-7545 ET Enschede (NL). **EIKENDAL, Martinus Peter**; Biljoen 35, NL-7608 ME Almelo (NL). **BOKS, Steven Ferdinand**; Zweerstraat 53, NL-7604 EB Almelo (NL). **VAN DER KUIL, Johannes Hermanus Maria**; Buurserstraat 169, NL-7481 EJ Haaksbergen (NL).
- (74) Agent: **DOOLAAR, Frans**; Hengelosestraat 141, NL-7521 AA Enschede (NL).
- (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, LT, 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, 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).

[Continued on next page]

(54) Title: POWER TRANSFER SYSTEM

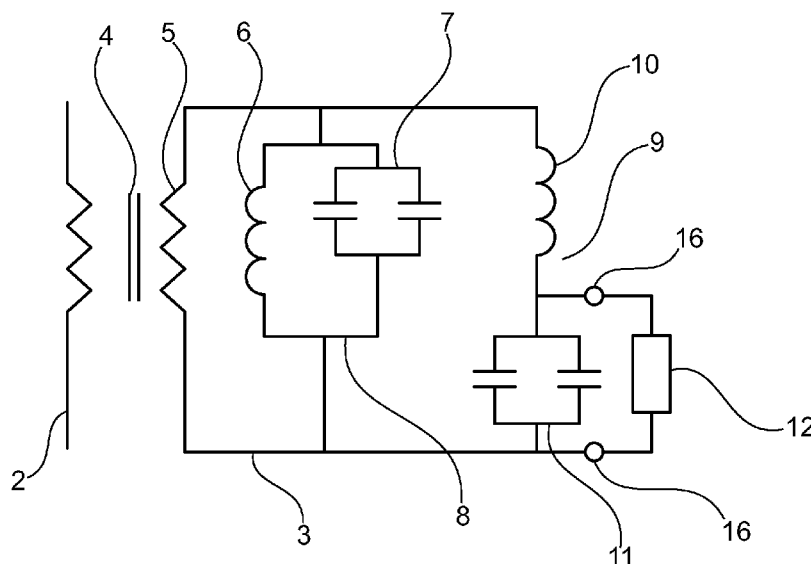


Fig. 7

(57) Abstract: Power transfer system comprising a transfer pick-up circuit for inductively picking up power from a cable carrying an alternating supply current. The power transfer system comprises a first circuit comprising the secondary winding of a transformer for providing an inductive coupling to the cable and a first capacitive module connected in parallel to the transformer. The transfer pick-up circuit further comprises a second circuit connected in parallel to the first circuit and comprises a second inductive module and means to transfer power to the load, the means being in series with the second inductive module.



Published:

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