



(51) **International Patent Classification:**
H02M 5/12 (2006.01) *G05F 5/04* (2006.01)

(21) **International Application Number:**
PCT/AU2012/000780

(22) **International Filing Date:**
29 June 2012 (29.06.2012)

(25) **Filing Language:** English

(26) **Publication Language:** English

(30) **Priority Data:**
2011902560 29 June 2011 (29.06.2011) AU
2011904992 30 November 2011 (30.11.2011) AU

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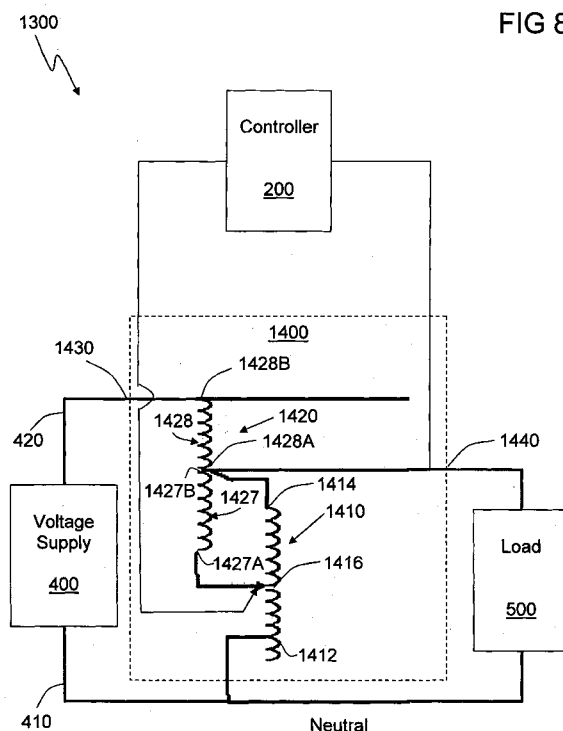
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, 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, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, 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, ML, MR, NE, SN, TD, TG).

Published:

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

(54) Title: SYSTEM AND METHOD FOR REDUCING POWER CONSUMPTION IN A POWER SUPPLY CIRCUIT



(57) Abstract: A system for reducing power consumption in a power supply circuit including: a transformer including: a core; a first winding including a first end and a second end of a first wire wound on the core; a second winding including a first end and a second end of a second wire, wherein the second wire has a larger cross-section than the first wire and the second end of the first wire is connected to the first end of the second wire; an input electrically connecting the first and second windings to the power supply circuit; and an output for connecting to a load; and a controller connected to the transformer for controlling an output voltage at the output, wherein the output voltage is less than a supply voltage at the input, to reduce the power consumption of the load.