

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
7 February 2008 (07.02.2008)

PCT

(10) International Publication Number
WO 2008/015461 A1

(51) International Patent Classification:
H02M 7/68 (2006.01)

(74) Agent: **OXLEY, Robin, John, George**; Marks & Clerk,
90 Long Acre, London WC2E 9RA (GB).

(21) International Application Number:
PCT/GB2007/002972

(22) International Filing Date: 3 August 2007 (03.08.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0615562.6 4 August 2006 (04.08.2006) GB
60/854,081 25 October 2006 (25.10.2006) US

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, ZA, ZM, ZW.

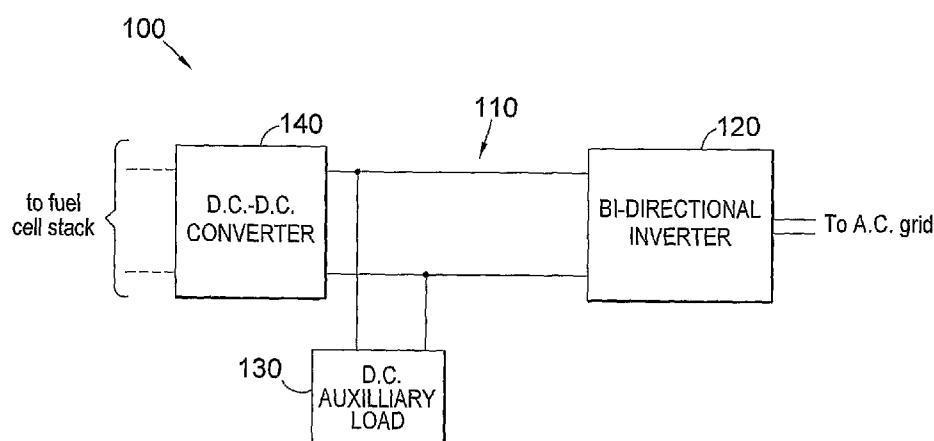
(71) Applicant (for all designated States except US): **CERES INTELLECTUAL PROPERTY COMPANY LIMITED** [GB/GB]; Unit 18, Denvale Trade Park, Haslett Avenue East, Crawley, West Sussex RH10 1SS (GB).

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors: **ELLIOTT, Charles, Richard**; 17 Chapel Street, Calverley, Pudsey, West Yorkshire LS28 5PS (GB). **EVANS, Christopher, John**; 103 Beaconsfield Villas, Brighton BN1 6HF (GB). **WATKINS, Stephen, James**; 45 Arlington Road, Gipton Wood, Leeds, West Yorkshire LS8 2RU (GB).

Published:
— with international search report

(54) Title: POWER SUPPLY CONTROL FOR POWER GENERATOR



(57) Abstract: A system (100) for connecting a fuel cell stack to an A.C. grid to provide power thereto is disclosed in which a voltage regulated D. C. bus (110) is provided to be coupled to the fuel cell stack, a bidirectional inverter (120) is coupled to the D. C. bus (110), and is to be coupled between the D. C. bus (110) and the A.C. grid. At least one D. C. auxiliary load (130) of the fuel cell stack is provided coupled to the D.C. bus (110). A D.C. to D. C. converter (140) is provided between the fuel cell stack and the D.C. bus (110).