

CORRECTED VERSION

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
18 September 2014 (18.09.2014)



(10) International Publication Number
WO 2014/145054 A8

- (51) International Patent Classification:
H01M 8/12 (2006.01) *H01M 8/02* (2006.01)
- (21) International Application Number:
PCT/US2014/029705
- (22) International Filing Date:
14 March 2014 (14.03.2014)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
13/843,178 15 March 2013 (15.03.2013) US
- (71) Applicant: **LG FUEL CELL SYSTEMS INC.** [US/US];
6065 Strip Avenue NW, North Canton, OH 44720 (US).
- (72) Inventors: **LIU, Zhien**; 6763 Canter Hill Circle NE, Canton, OH 44721 (US). **GOETTLER, Richard**; 4030 Dan Road, Medina, OH 44256 (US). **DELAFORCE, Philip, Mark**; 95 James Close, Derby DE 1 1DP (GB).
- (74) Agents: **GOSNELL, Paul** et al.; Krieg Devault LLP, One Indiana Square, Suite 2800, Indianapolis, IN 46204 (US).
- (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).

Published:

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

- (48) Date of publication of this corrected version:

22 October 2015

- (15) Information about Correction:
see Notice of 22 October 2015

- (54) Title: FUEL CELL SYSTEM WITH INTERCONNECT

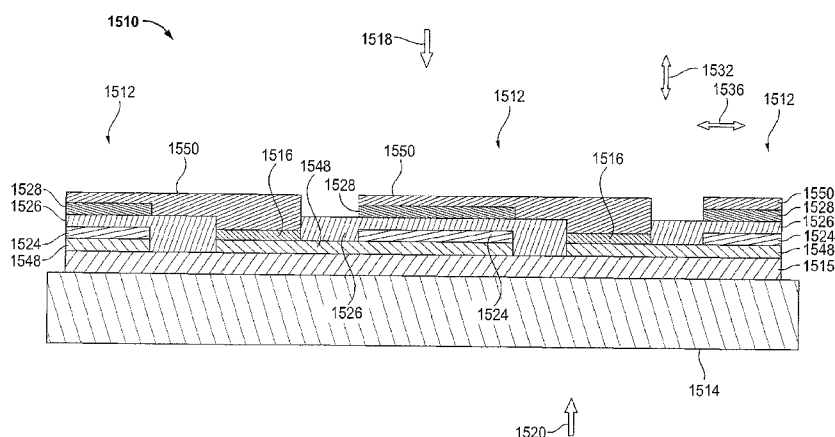


FIG. 20

- (57) Abstract: The present invention includes a fuel cell system (1510) having an interconnect (1516) that reduces or eliminates diffusion (leakage) of fuel and oxidant by providing an increased densification, by forming the interconnect as a ceramic/metal composite.