

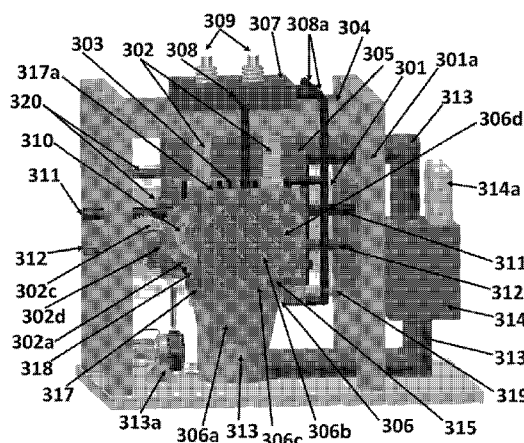


- (51) International Patent Classification: 62/149,501 17 April 2015 (17.04.2015) US
G21B 3/00 (2006.01) G21B 1/15 (2006.01) 62/159,230 9 May 2015 (09.05.2015) US
62/165,340 22 May 2015 (22.05.2015) US
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- (22) International Filing Date: 29 May 2015 (29.05.2015) (72) Inventor: **MILLS, Randell L.**; 115 Cooper Hawk Drive,
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- (25) Filing Language: English (74) Agent: **SWEET, Mark D.**; Finnegan, Henderson, Fara-
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- (26) Publication Language: English (74) Agent: **SWEET, Mark D.**; Finnegan, Henderson, Fara-
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N.W., Washington, DC 20001 (US).
- (30) Priority Data:
- | | | | |
|------------|-------------------------------|----|---|
| 62/004,883 | 29 May 2014 (29.05.2014) | US | (81) Designated States (unless otherwise indicated, for every |
| 62/012,193 | 13 June 2014 (13.06.2014) | US | kind of national protection available): AE, AG, AL, AM, |
| 62/016,540 | 24 June 2014 (24.06.2014) | US | AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, |
| 62/021,699 | 7 July 2014 (07.07.2014) | US | BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, |
| 62/023,586 | 11 July 2014 (11.07.2014) | US | DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, |
| 62/026,698 | 20 July 2014 (20.07.2014) | US | HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, |
| 62/037,152 | 14 August 2014 (14.08.2014) | US | KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, |
| 62/041,026 | 22 August 2014 (22.08.2014) | US | MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, |
| 62/058,844 | 2 October 2014 (02.10.2014) | US | PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, |
| 62/068,592 | 24 October 2014 (24.10.2014) | US | SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, |
| 62/083,029 | 24 November 2014 (24.11.2014) | US | TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW. |
| 62/087,234 | 4 December 2014 (04.12.2014) | US | (84) Designated States (unless otherwise indicated, for every |
| 62/092,230 | 15 December 2014 (15.12.2014) | US | kind of regional protection available): ARIPO (BW, GH, |
| 62/113,211 | 6 February 2015 (06.02.2015) | US | GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, |
| 62/141,079 | 31 March 2015 (31.03.2015) | US | |

[Continued on next page]

(54) Title: ELECTRICAL POWER GENERATION SYSTEMS AND METHODS REGARDING SAME

Fig. 1



(57) Abstract: A solid or liquid fuel to plasma to electricity power source that provides at least; one of electrical and thermal power comprising (i) at least one reaction cell for the catalysis of atomic hydrogen to form hydrinos, (ii) a chemical fuel mixture comprising at least two components chosen from: a source of H₂O catalyst or H₂O catalyst; a source of atomic hydrogen or atomic hydrogen; reagents to form the source of H₂O catalyst or H₂O catalyst and a source of atomic hydrogen or atomic hydrogen; one or more reagents to initiate the catalysis of atomic hydrogen; and a material to cause the fuel to be highly conductive, (iii) a fuel injection system such as a railgun shot injector, (iv) at least one set of electrodes that confine the fuel and an electrical power source that provides repetitive short bursts of low-voltage, high-current electrical energy to initiate rapid kinetics of the hydrino reaction and an energy gain due to forming hydrinos to form a brilliant-light emitting plasma, (v) a product recovery system such as at least one of an augmented plasma railgun recovery system and a gravity recovery system (vi) a fuel pelletizer or shot maker comprising a source of hydrogen and a source of H₂O, a dripper and a water bath to form fuel pellets or shot, and an agitator to feed shot into the injector, and (vii) a power converter capable of converting the high-power light output of the cell into electricity such as a concentrated solar power device comprising a plurality of ultraviolet (UV) photoelectric cells or a plurality of photoelectric cells, and a UV window.



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))*