



(51) International Patent Classification:

F01K 3/18 (2006.01) C10G 2/00 (2006.01)
B01J 12/00 (2006.01)

(21) International Application Number:

PCT/GB2022/050473

(22) International Filing Date:

21 February 2022 (21.02.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2102409.6 19 February 2021 (19.02.2021) GB

(71) Applicant: **ENG8 LIMITED** [—/GB]; 2 Irish Town,
Gibraltar, GX11 1AA (GI).

(72) Inventors: **ALTUNIN, Sergei**; apt. 47, st. A. Peresvet, d.
18, Bryansk (RU). **KULAKOVSKII, Oleg**; flat 598, Dal-
nevostochnii prospect, 12, Corp. 2, bld. 1, Saint Petersburg,
193230 (RU). **BACK, Haslen Matthew**; Flat 55, 30 Nine

Elms Lane, London SW8 5DF (GB). **TYUTINA, Valeria**;
Flat 55, 30 Nine Elms Lane, London SW8 5DF (GB).

(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, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, IT, JM, JO, JP, KE, KG, KH,
KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, 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, ST, SV, SY, TH, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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, ST, 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,

(54) Title: ENERGY CELL

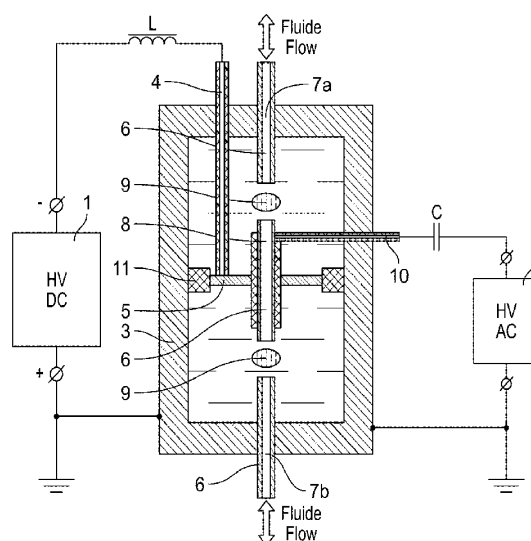


FIG. 1

(57) Abstract: An energy cell comprising: a chamber for receiving a working fluid and having at least one inlet and outlet to allow working fluid(s) to flow through the chamber; at least one electrode within the chamber to apply electrical energy to the working fluid to generate plasma therein; and the energy cell further comprising: a fluid circulation system for circulating working fluid through the chamber; and a work extraction system for extracting work from fluid output from the chamber.

[Continued on next page]

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))*
- *before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))*

(88) Date of publication of the international search report:

13 October 2022 (13.10.2022)