

Nicolas Vargas

1) Family number: 60956126 (US2017104426A)

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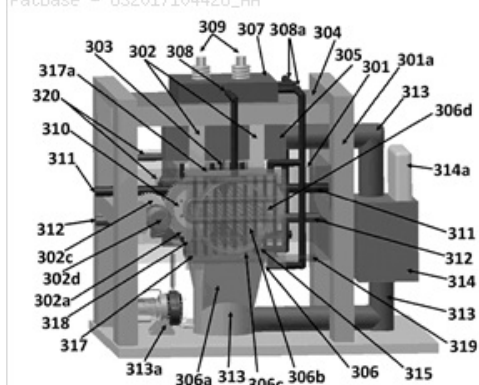
Title: ELECTRICAL POWER GENERATION SYSTEMS AND METHODS REGARDING SAME

Abstract: Source: US2017104426A [EN] 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 hydrides, (ii) a chemical feed mixture comprising at least two components chosen from: a source of H₂O catalyst or H₂O catalyst; a source of atomic hydrogen or atomic hydrogen; reactants to form the source of H₂O catalyst or H₂O catalyst and a source of atomic hydrogen or atomic hydrogen; one or more reactants to initiate the catalysis of atomic hydrogen; and a material to cause the feed 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 hydride reaction and an energy gain due to forming hydrides 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 dropper 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.

Classifications:

International (IPC 8-9): B22F9/08 C25B1/04 C25B13/04 G21B G21B1/15 G21B1/21 G21B3/00 G21G5/00 H01L31/0304 H01L31/0725 H01L31/0735 H02N3/00 H02S10/10 H02S10/40 H02S40/22 H02S40/32 H02S40/38 H02S40/42 H02S40/44 H05H1/24 (Advanced/Invention); G21B (Subclass/Invention)
CPC: G21B3/00 G21B1/15 Y02E30/16 Y02E30/18 H05H2240/00 H02S10/40 H02N3/00 H05H1/24 H01L31/0725 H01L31/0735 H02S40/32 H02S40/38 H02S40/22 H02S40/42 C25B1/04 C25B13/04 H05H2277/13 H05H1/46 H05H2001/466 Y02E60/366 Y02E70/10 Y02P20/129 Y02P20/134 B22F2009/0888 B22F2009/0896 H01L31/0547 H01L31/0549 H02S10/10 H02S40/425 H02S40/44 H02S10/30 Y02E10/52 Y02E10/544 Y02E10/60
US: 310/306

PatBase - US2017104426_AA

**Family:**

Publication number	Publication date	Application number	Application date
AU2015266760 AA	20151203	AU20150266760	20150529
AU2016260177 AA	20161117	AU20160260177	20160108
BR112016027844 A2	20170822	BR20161127844	20150529
CA2948640 AA	20161109	CA20152948640	20150529
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CN107077893 A	20170818	CN201580040818	20150529
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KR20170013357 A	20170206	KR20167037020	20150529
KR20180016397 A	20180214	KR20177035406	20160108
MX2016015386 A1	20180126	MX20160015386	20150529
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WO15184252 A1	20151203	WO2015US33165	20150529
WO15184252 A9	20160324	WO2015US33165	20150529
WO16182600 A1	20161117	WO2015US65826	20151215
WO16182605 A1	20161117	WO2016US12620	20160108

Priority:

US20030469913 20030905	US20040494571 20040506	US20140004883P 20140529
US20140012193P 20140613	US20140016540P 20140624	US20140021699P 20140707
US20140023586P 20140711	US20140026698P 20140720	US20140037152P 20140814
US20140041026P 20140822	US20140058844P 20141002	US20140068592P 20141024
US20140083029P 20141121	US20140083029P 20141124	US20140087234P 20141204

US20140092230P 20141215 US20150113211P 20150206 US20150141079P 20150331
US20150149501P 20150417 US20150159230P 20150509 US20150165340P 20150522
WO2015US33165 20150529 US20150314196 20150529 US20150172169P 20150607
US20150173911P 20150610 US20150182421P 20150619 US20150191204P 20150710
US20150196751P 20150724 US20150200672P 20150804 US20150208205P 20150821
US20150217411P 20150911 US20150220582P 20150918 US20150237375P 20151005
US20150254104P 20151111 US20150257617P 20151119 US20150263395P 20151204
US20150268963P 20151217 WO2016US12620 20160108

Probable Assignee: BRILLIANT LIGHT POWER INC

Assignee(s): (std): BLACKLIGHT POWER INC ; BRILLIANT LIGHT POWER INC ; MILLS RANDELL LEE

Assignee(s): MILLS RANDELL L

Inventor(s): (std): MILLS RANDELL L ; MILLS RANDELL LEE ; RANDELL L MILLS

Agent(s): SPRUSON AND FERGUSON; RIDOUT AND MAYBEE LLP; UEXKUELL AND STOLBERG; SWEET MARK D

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 57411665 (US2016033328A)

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Title: AMBIENT LIGHT ASSISTED **SPECTROSCOPY**

Abstract: Source: US2016033328A [EN] A spectroscopic device, which may be a handheld spectroscopic light source, which uses ambient light as a primary broadband light source, but which may be supplemented with an auxiliary light source to supplement band regions which may be deficient in the broad band source. The spectroscopic device makes use of a number of parallel control channels to monitor for sufficient light and to compensate for variations in the input light levels.

Classifications:

International (IPC 8-9): G01J3/02 G01J3/18 G01J3/28

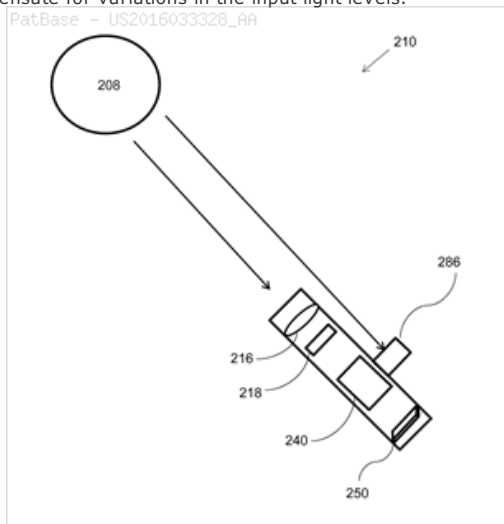
G01N33/48 (Advanced/Invention)

CPC: G01J3/0272 G01J3/2803 G01J3/0208 G01J3/0224 G01J3/0229

G01J3/18 G01J3/0216 G01J3/0264 G01J3/027 G01J3/0289 G01J3/10

G01J3/12 G01J3/42 G01J2003/1213 G01N21/255 G01N2021/3122

US: 356/326 356/327 356/328



Family:

Publication number	Publication date	Application number	Application date
US2016033328 AA	20160204	US20130775299	20131203
WO14143235 A1	20140918	WO2013US72936	20131203

Priority:

US20130785335P 20130314

US20130775299 20131203

WO2013US72936 20131203

Probable Assignee: INTEGRATED PLASMONICS CORP

Assignee(s): (std): INTEGRATED PLASMONICS CORP

Inventor(s): (std): WALTERS ROBERT JOSEPH

Agent(s): YOSHIMURA MASAO

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

3) Family number: 29070370 (CA2376747A)

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Title: APPARATUS FOR QUANTITATIVE IN VIVO OPTICAL MEASUREMENT OF A MAMMALIAN ANALYTE CONCENTRATION AND USE THEREOF

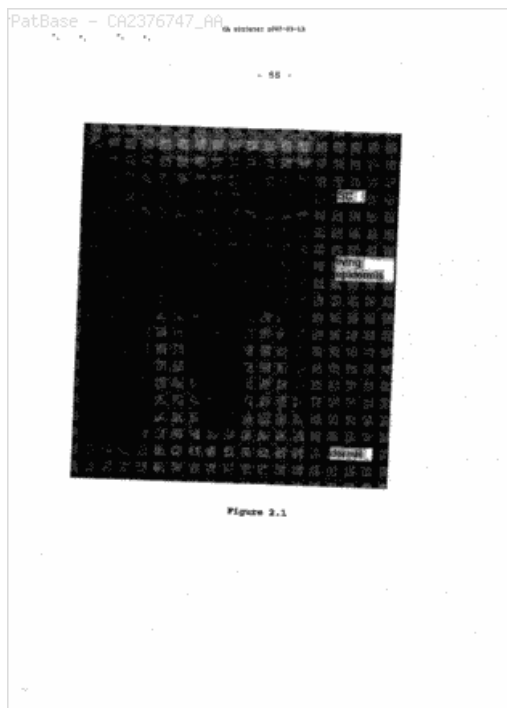
Abstract: Source: CA2376747A [EN] An instrument in which NIR light reflects against the skin and the water content correlates with the amount of light absorbed. Water dominates large blocks of the NIR absorption spectra. 1940 nm and 1460 nm were used as measurement wavelengths. A **quartz**-halogen lamp was used as a light source for the instrument and two band pass **filters** were used to select the two measurement wavelengths. **Laser** diodes can also be used. With **laser** diodes the wavelength is fixed and the light can be chopped by switching the **laser** diode on and off rapidly. Chopping is a convenient way to synchronise the photo diode (the sensor) with the source. Tests on thin layers of paper show the feasibility of the approach described; for a relatively inexpensive, non-invasive instrument for water content measurement in skin.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/053 A61B5/145

A61B5/1455 G01J1/44 G01N21/25 G01N33/487

G01N37/00 (Advanced/Invention);
G01N21/35 (Advanced/Non-invention);
A61B5/00 A61B5/053 G01N33/487 (Core/Invention);
G01N21/31 (Core/Non-invention)
International (IPC 1-7): A61B5/00 G01N21/25 G01N21/35
G01N33/487 G01N37/00
CPC: A61B5/1455 A61B5/0531 A61B5/14532 G01N21/359
European: A61B5/053B A61B5/1455 A61B5/145G G01N27/327B
S01N21/35G



Family:

Publication number	Publication date	Application number	Application date
CA2376747 AA	20030913	CA20022376747	20020313

Priority:

CA20022376747 20020313

Probable Assignee: ABERG PETER

Assignee(s): (std): ABERG PETER ; BANIASAD PARISA ; HELLSTROM PER ; OLLMAR STIG

Inventor(s): (std): ABERG PETER ; BANIASAD PARISA ; HELLSTROM PER ; OLLMAR STIG

Agent(s): BLAKE CASSELS AND GRAYDON LLP

4) Family number: 28538658 (US2003090663A)

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Title: ARRAY-BASED PHOTOACOUSTIC **SPECTROSCOPY**

Abstract: Source: US2003090663A [EN] Methods and apparatus for simultaneous or sequential, rapid analysis of multiple samples by photoacoustic **spectroscopy** are disclosed. A photoacoustic **spectroscopy** sample array including a body having at least three recesses or affinity masses connected thereto is used in conjunction with a photoacoustic **spectroscopy** system. At least one acoustic detector is positioned near the recesses or affinity masses for detection of acoustic waves emitted from species of interest within the recesses or affinity masses.

Classifications:

International (IPC 8-9): G01N21/17 G01N21/25 (Advanced/Invention);

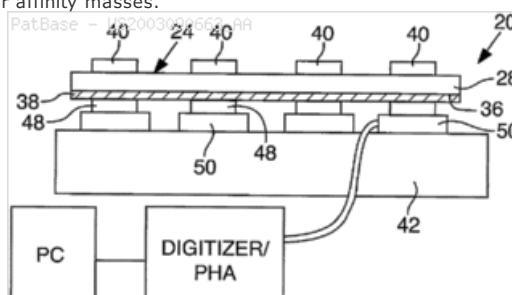
G01N21/17 G01N21/25 (Core/Invention)

International (IPC 1-7): G01N21/17 G01N21/59

CPC: G01N21/1702 G01N21/253

European: G01N21/17B G01N21/25B2

US: 356/432



Family:

Publication number	Publication date	Application number	Application date
US2003090663 AA	20030515	US20010001235	20011113
US6870626 BB	20050322	US20010001235	20011113
WO03042669 A1	20030522	WO2002US36689	20021113

Priority:

US20010001235 20011113

Probable Assignee: BATTELLE MEMORIAL INST

Assignee(s): (std): BATTELLE MEMORIAL INST ; BATTELLE MEMORIAL INSTITUTE

Assignee(s): QUANTUM NORTHWEST ; US DEPARTMENT OF ENERGY ; BATTELLE MEMORIAL INSTITUT

Inventor(s): (std): AUTREY S THOMAS ; AUTREY THOMAS S ; CHEN YU ; POSAKONY GERALD J ; YU CHEN

Agent(s): KLARQUIST SPARKMAN LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW