

Diego Gonzalez Castillo

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Search 6: STAC=(bioreactor and density and optic*) (Results 121)
Search 7: STAC=(bioreactor and downcomer) (Results 35)
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1) Family number: 34588189 (US2009047722A)

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Title: SYSTEMS, DEVICES, AND METHODS FOR BIOMASS PRODUCTION

Abstract: Systems, devices, and methods for releasing one or more cell components from a photosynthetic organism. A bioreactor system is operable for growing photosynthetic organisms. Some of the methods include contacting the photosynthetic organism with an energy-activatable sensitizer, and activating the energy-activatable sensitizer, thereby releasing a cellular component from at least one of, for example, a membrane structure, tubule, vesicle, cisterna, organelle, cell compartment, plastid, or mitochondrion, associated with the photosynthetic organisms.

Classifications:

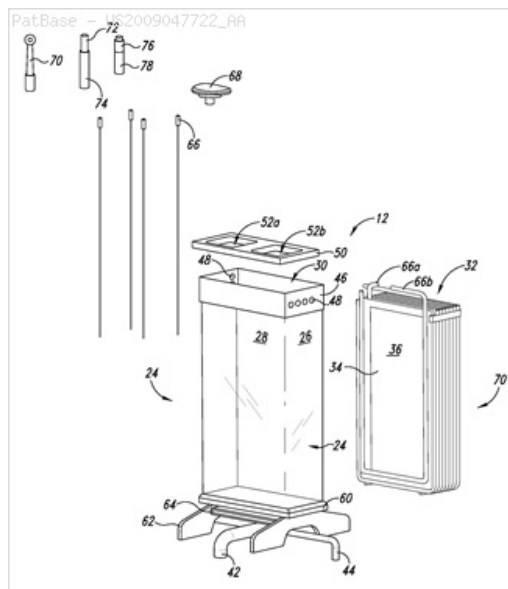
International (IPC 8-9): C12M1/00 C12M1/02 C12M1/42 C12N1/00
C12N1/12 C12N13/00 C12P5/00 (Advanced/Invention);
C12M1/00 C12N1/12 C12N13/00 C12P5/00 (Core/Invention)

International (IPC 1-7): C12M1/00 C12P5/00

CPC: C12M33/00 C12M21/02 C12M31/10 C12M41/06 C12M41/36
C12N1/12 C12N13/00 C12P7/6463 C12P7/649 C12P39/00 Y02E50/13
Y02E50/343 Y02P20/134

European: C12M21/02 C12M31/10 C12M33/00 C12M41/06 C12M41/36
C12N1/12 C12N13/00 C12P39/00 C12P7/64E2D C12P7/64E4 Y02E50/34B

US: 435/173.7 435/173.700P 435/243 435/243S 435/257.1 435/257.100P
435/257.100S 435/292.1 435/292.100S



Family:

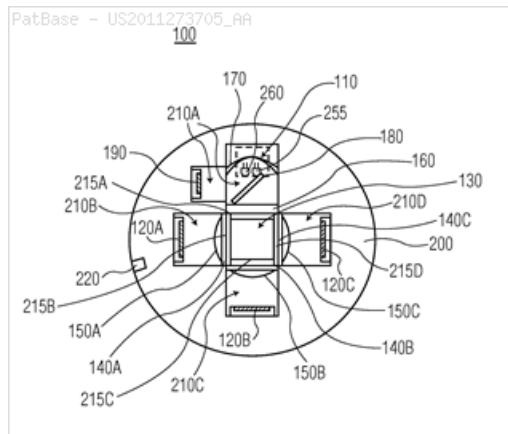
Publication number	Publication date	Application number	Application date
AU2006326582 AA	20070621	AU20060326582	20061208
CA2634234 AA	20070621	CA20062634234	20061208
CN101356261 A	20090128	CN200680050726	20061208
EP1957627 A1	20080820	EP20060845149	20061208
IN02463KN2008 A	20090123	IN2008KN02463	20080618
KR20080086988 A	20080929	KR20087016551	20061208
US2009047722 AA	20090219	US20080045618	20080310
US2012149091 AA	20120614	US20060608527	20061208
WO07070452 A1	20070621	WO2006US47120	20061208

Priority:

US20050749243P 20051209 US20060773183P 20060214 US20060608527 20061208

Probable Assignee: BIONAVITAS INC**Assignee(s):** (std): BIONAVITAS INC ; CHEN JAMES C ; GUSCHIN ANDREI ; WEAVER MICHAEL ; PULSE JOHN ; WILKERSON BRIAN ; WILKERSON BRIAN D**Inventor(s):** (std): CHEN JAMES C ; WEAVER MICHAEL ; GUSCHIN ANDREI ; PULSE JOHN ; WILKERSON BRIAN ; WILKERSON BRIAN D ; JOHN PULSE ; MICHAEL WEAVER ; BRIAN WILKERSON ; ANDREI GUSCHIN**Inventor(s):** JAMES C CHEN ; CHEN JAMES**Agent(s):** DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; VIERING JENTSCHURA AND PARTNER; SEED INTELLECTUAL PROPERTY LAW GROUP PLLC**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM 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 IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**2) Family number: 50604097 (US2011273705A)**

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Title: CHLOROPHYLL AND TURBIDITY SENSOR SYSTEM**Abstract:** A low cost sensing system that can measure both chlorophyll concentration and turbidity is provided. The system is an optical system that utilizes at least three light sensors for measuring side-scattered and forward scattered light, as well as fluorescence. The system is able to take optical density measurements, steady state fluorescence measurements and maximum fluorescence measurements, and can be configured for wireless control and data transmission. The system may also be housed in one or more fluidtight housings so as to make it submersible.**Classifications:****International (IPC 8-9):** C12Q1/02 G01J1/42 G01N1/00 G01N15/14 G01N21/00 G01N21/05 G01N21/15 G01N21/53 G01N21/64 G01N21/82 G01N21/85 G01N33/18 G01N33/53 (Advanced/Invention); C12Q1/02 (Core/Invention)**CPC:** G01N21/05 G01N21/15 G01N21/532 G01N21/645 G01N21/6486 G01N21/82 G01N21/8507 G01N33/5308 G01N2021/635 G01N2021/6432 G01N2201/0218 G01N2201/0627**European:** G01N21/53A G01N21/64P G01N21/64R G01N21/85B G01N33/53F S01N201/021G S01N201/062K S01N21/05 S01N21/15 S01N21/63G S01N21/64H4 S01N21/82**US:** 356/222 356/222P 356/72 356/73 356/73.1**Family:**

Publication number	Publication date	Application number	Application date
DE602010019968 D1	20141218	DE201060019968T	20100125
EP2389447 A1	20111130	EP20100733960	20100125
EP2389447 A4	20120620	EP20100733960	20100125
EP2389447 B1	20141105	EP20100733960	20100125
US2011273705 AA	20111110	US20100142284	20100125
US8654319 BB	20140218	US20100142284	20100125
WO10085736 A1	20100729	WO2010US21960	20100125

Priority:US20090146804P 20090123 EP20100733960 20100125 WO2010US21960 20100125
US20100142284 20100125**Probable Assignee:** OF MARYLAND BALTIMORE COUNTY UNIV**Assignee(s):** (std): GE XUDONG ; KOSTOV YORDAN ; LAM HUNG ; RAO GOVIND ; UNIV MARYLAND ; TOLOSA LEAH**Assignee(s):** UNIVERSITY OF MARYLAND BALTIMORE COUNTY ; OF MARYLAND BALTIMORE COUNTY BALTIMORE UNIV ; OF MARYLAND BALTIMORE COUNTY UNIV**Inventor(s):** (std): RAO GOVIND ; GE XUDONG ; TOLOSA LEAH ; LAM HUNG ; KOSTOV YORDAN**Inventor(s):** LAM HUNG BALTIMORE ; RAO GOVIND COLUMBIA ; TOLOSA LEAH COLUMBIA ; KOSTOV YORDAN COLUMBIA ; GE XUDONG ELLICOTT CITY**Agent(s):** MUELLER BORE AND PARTNER PATENTANWAELE PARTG MBB; GLAWE DELFS MOLL; RENE A; VAZQUEZ RENE**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ 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 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 PE PG PH PL PT RO RS RU 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: 42995240 (US2011104730A)**

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Title: MESOSCALE BIOREACTOR PLATFORM FOR PERFUSION

Abstract: Disclosed is a mesoscale bioreactor platform including two or more liquid reservoirs in fluid communication with a culture chamber which chamber is in fluid communication with an exit. The platform allows the chamber to be perfused with a flow of liquid from one or more of the liquid reservoirs. The integrated reservoirs for liquids remove the need for external supplies of liquid to the culture chamber during cell culture experiments requiring perfusion of liquids. Moreover, with two or more reservoir it is possible to supply the culture chamber with different types of liquids.

Classifications:

International (IPC 8-9): B01L3/00 C12M1/00 C12M1/02 C12M1/04 C12M1/22 C12M1/34 C12M1/36 C12M1/38 C12M3/00 C12N1/14 C12N1/16 C12N1/20 C12N5/07 C12N5/071 C12N5/075 C12N5/078 C12N5/0783 C12N5/0784 C12N5/0786 C12Q1/02 (Advanced/Invention); B01L3/00 C12M1/22 C12M1/34 (Core/Invention)

International (IPC 1-7): C12M1/22

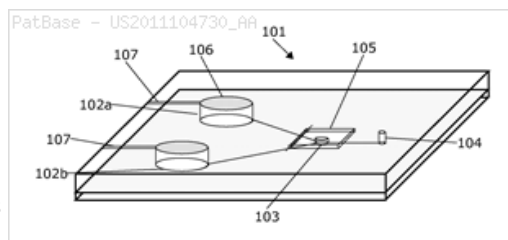
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European: C12M21/06 C12M29/10 C12M41/00 L01L3/5027

US: 435/243 435/243S 435/286.1 435/286.100S 435/286.5 435/286.500S 435/286.6 435/286.600S 435/287.1 435/287.100S 435/287.2 435/287.200S 435/288.7 435/288.700S 435/289.1 435/289.100S 435/29 435/29P 435/325 435/325S

JP F-Term: 4B029 4B029/AA02 4B029/BB11 4B029/CC01 4B029/DA01 4B029/DA10 4B065 4B065/AA90 4B065/BC50

JP F-Index: C12M1/00/C C12N1/14/B C12N1/16/A C12N1/20/A C12N5/00/202 C12N5/07



Family:

Publication number	Publication date	Application number	Application date
CN101835886 A	20100915	CN200880112891	20080801
EP2190973 A2	20100602	EP20080773328	20080801
IN01506CN2010 A	20100827	IN2010CN01506	20100317
JP2010536348 T2	20101202	JP20100521305T	20080801
US2011104730 AA	20110505	US20080674762	20080801
WO09026931 A2	20090305	WO2008DK50192	20080801
WO09026931 A3	20091022	WO2008DK50192	20080801

Priority:

DK20070001213 20070824 WO2008DK50192 20080801

Probable Assignee: SMART BIOSYSTEMS APS

Assignee(s): (std): KRUEHNE ULRICH ; LARSEN JACOB MOELLENBACH ; SMART BIOSYSTEMS APS

Inventor(s): (std): KRUEHNE ULRICH ; LARSEN JACOB MOELLENBACH ; KRUEHNE ULRICH ; LARSEN JACOB MOELLENBACH ; MOELLENBACH LARSEN JACOB ; ULRICH KRUEHNE

Agent(s): RASMUSSEN TORBEN RAVN; RASMUSSEN TORBEN RAVN ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

4) Family number: 62733443 (DE102015226022A1)

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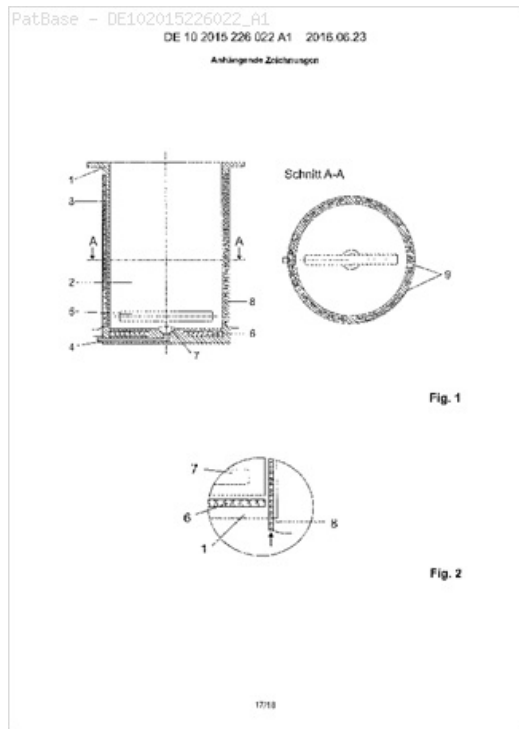
Title: FUNKTIONSGEINTEGRATIVER BIOREAKTOR FUNCTIONAL INTEGRATIVE BIOREAKTOR (Machine translation)

Abstract: Source: DE102015226022A1 [DE] Die Erfindung betrifft ein Verfahren zur Herstellung eines Bioreaktors mit integrierten aktorischen Funktionen sowie einen Bioreaktor mit integrierten aktorischen Funktionen. **Machine translation:** The invention relates to a process for the preparation of a bioreactor with integrated actoric functions as well as a bioreactor with integrated actoric functions.

Classifications:

International (IPC 8-9): C12M1/00 C12M1/02 C12M1/04 C12M1/42 (Advanced/Invention)

CPC: C12M27/00 C12M31/10 C12M23/20



Family:

Publication number	Publication date	Application number	Application date
DE102015226022 A1	20160623	DE201510226022	20151218

Priority:

DE201410226641 20141219

Probable Assignee: TECHNISCHE UNIV DRESDEN

Assignee(s): (std): TECHNISCHE UNIV DRESDEN

Inventor(s): (std): BLEY THOMAS ; GUDE MAIK ; STANGE ROBERT ; KAUFHOLD JULIA ; LENK FELIX ; TITTMANN KARSTEN ; WEBER JOST

5) Family number: 54024186 (US2014315290A)

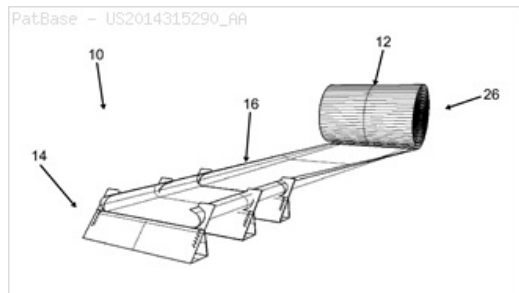
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Title: LOW-COST PHOTOBIOREACTOR

Abstract: The present invention provides a photobioreactor comprising at least one translucent flexible sheet shapable by a support assembly forming thereby an elongated channel adapted for biomass production therewithin. Kits for making a photobioreactor and a floatable photobioreactor are also provided.

Classifications:

International (IPC 8-9): C12M1/00 C12M1/04 C12M1/12 C12M1/34 C12M1/38 C12M1/42 C12M3/00 C12M3/06 C12N1/12 C12P7/64 (Advanced/Invention); C12N1/12 C12P1/00 C12P7/64 (Advanced/Non-invention)
CPC: C12M27/00 C12M27/20 C12M29/06 C12M31/02 C12M23/06 C12M35/02 C12M41/00 C12M23/46 C12M29/20 C12M31/00 C12M31/10 C12M27/16 C12M41/10 C12M23/56 C12M21/02 C12M23/04 C12M23/18 C12M23/22 C12M23/26 C12M23/38 C12M23/48
US: 435/287.1 435/288.7 435/292.1



Family:

Publication number	Publication date	Application number	Application date
AU2012350117 AA	20130613	AU20120350117	20121022
CA2761251 AA	20130607	CA20112761251	20111207
CA2764291 AA	20130716	CA20122764291	20120116
CA2858204 AA	20140604	CA20122858204	20121022
IN05129CN2014 A	20160212	IN2014CN05129	20140704
US2014315290 AA	20141023	US20120362904	20121022
WO13082713 A1	20130613	WO2012CA50750	20121022

Priority:

CA20112761251 20111207 CA20122764291 20120116 WO2012CA50750 20121022
CA20122858204 20121022

Probable Assignee: ALGABLOOM INT LTD

Assignee(s): (std): INT LTD ; MOTTAHEDEH SOHEYL ; MOTTAHEDEH SOHEYL S M ; TREDICI MARIO R T R

Assignee(s): MOTTAHEDEH SOHEYL186 - 3105 DAYANEE SPRINGS BLVD.COQUITLAMB1V3E 0C2CA ; ALGABLOOM INT LTD ; MOTTAHEDEH SOHEYL SM

Inventor(s): (std): MOTTAHEDEH SOHEYL ; MOTTAHEDEH SOHEYL S M ; TREDICI MARIO R T R

Inventor(s): MOTTAHEDEH SOHEYL186 - 3105 DAYANEE SPRINGS BLVD.COQUITLAMB1V3E 0C2CA ; MOTTAHEDEH SOHEYL SM

Agent(s): PHILLIPS ORMONDE FITZPATRICK; NA; ROBIC; ROBIC LLP

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 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 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

6) Family number: 76184389 (CO20190003433U)

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Title: BIOREACTOR CON MEDIDOR EXTERNO DE DENSIDAD OPTICA BIOREACTOR WITH EXTERNAL METER OF OPTICAL DENSITY (Machine translation)

Abstract: Source: CO20190003433U [ES] Esta invencion se refiere a un equipo bioreactor con medidor externo de densidad optica incorporado y desmontable sin la necesidad de apertura del bioreactor. Particularmente, la presente invencion reside en un arreglo de equipo para el cultivo de microorganismos que incluye un medidor de densidad optica externo incorporado para monitorear en tiempo real la velocidad de crecimiento de los microorganismos. Dicho equipo comprende entonces un contenedor principal que incluye una boca de entrada superior roscada para recibir una tapa de cierre y aislar el interior del contenedor principal, donde dicha tapa de cierre incluye una primera perforacion pasante para el ingreso al contenedor principal de una linea de suministro de aire y una segunda perforacion de una linea de evacuacion de aire, donde la linea de suministro de aire sobrepasa concentricamente una rejilla para control de espuma dispuesta al interior del contenedor principal sobre el nivel de fluido; y, donde el contenedor principal comprende una tuberia de paso paralela en conexion desde un tubo de flujo inferior en conexion con un tubo de flujo superior por intermedio de un tubo lateral de pared transparente conformando una celda de lectura, donde dicho tubo lateral esta dispuesto en paralelo en relacion con el cuerpo del contenedor principal y sobrepasa un medidor de densidad optica que comprende un emisor LED por un lado y una fotoresistencia en conexion con un controlador electronico que incluye un sistema de almacenamiento de memoria externa. **Machine translation:** This invention relates to a bioreactor with external meter of optical density built-in and removable without the need for opening of the bioreactor. Particularly, the present invention resides in an array of equipment for the cultivation of microorganisms that includes a built-in external optical density meter to monitor in real time the rate of growth of the microorganisms. Then a main container that includes said equipment comprises a mouth upper inlet for receiving a threaded closure cap and isolate the inside of the main container, wherein said closure includes a first bore for entering the main container of an air supply line and a second bore of an evacuation line of air, wherein the air supply line exceeds a grid for concentrically arranged inside the main container foam control on the fluid level; and, where the main container comprises a step parallel connection from a lower flow tube in connection with a higher flow tube through a tube Transparent side wall forming a reading cell, wherein said side tube is disposed in parallel in relation to the body of the main container and exceeds a optical density meter comprising an LED emitter on one side and a fotoresistencia in connection with an electronic controller that includes an external memory storage system.

Classifications:
International (IPC 8-9): G01F1/22 G01F1/58 G01F3/00 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
CO20190003433 U1	20191009	CO20190003433U	20190405

Priority:
CO20190003433U 20190405

Probable Assignee: UNIV ANTONIO NARINO

Assignee(s): (std): UNIV ANTONIO NARINO

Assignee(s): UNIVERSIDAD ANTONIO NARINO

Inventor(s): (std): LUNA WANDURRAGA HECTOR JAVIER ; MARROQUIN FANDINO JORGE EDUARDO ; VALDERRAMA RINCON JOAQUIN ANDRES ; VALDERRAMA RINCON JUAN DANIEL ; MARTINEZ ROJAS ANDRES JULIAN

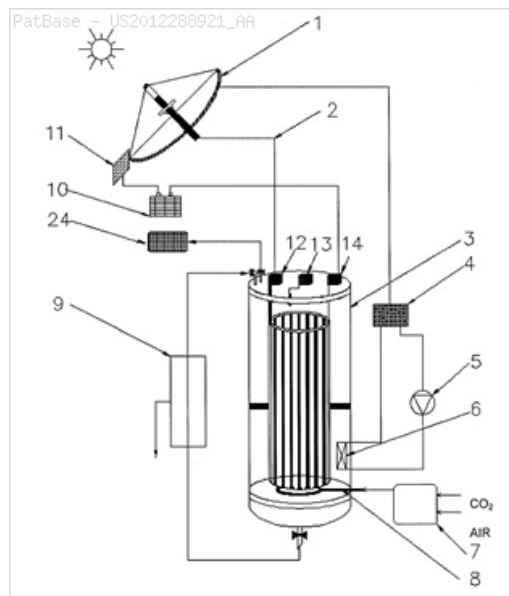
7) Family number: 45038131 (US2012288921A)

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Title: SOLAR POWERED SPECTRAL PHOTOSYNTHETIC BIOREACTOR SYSTEM FOR CULTURING MICROALGAE AT HIGH DENSITY

Abstract: A solar powered spectral photosynthetic bioreactor system for culturing microalgae at high density, the system comprising a photobioreactor and further comprising a solar collector, optical fiber, an illuminant device within the photobioreactor, and a residual gas absorption device and culture medium separation and recovery device each connected to the photobioreactor; the illuminant device having one end connected to a spectral light intensity adjusting device installed above the photobioreactor; the adjusting device connected to the solar collector via the optical fiber; a gas distributor provided between the underside of the illuminant device and a base part of the photobioreactor; the distributor connected to an output end of a gas mixing device. This system can effectively improve utilization of solar energy, lower external electrical power consumption, and resolve the problems of solar energy being intermittent and unstable in nature and difficult to collect, ensuring continuous and stable culturing of microalgae.

Classifications:
International (IPC 8-9): C12M1/00 C12M1/02 C12M1/34 C12M1/36 C12M1/38 C12M1/42 (Advanced/Invention); C12M1/00 C12M1/02 C12M1/34 C12M1/36 (Core/Invention)
CPC: C12M29/08 C12M41/24 C12M43/00 C12M21/02 C12M31/02 C12M31/08 Y02P20/59
European: C12M21/02 C12M29/18 C12M29/22 C12M31/02 C12M31/08
US: 435/287.1 435/292.1



Family:

Publication number	Publication date	Application number	Application date
CN101709262 A	20100519	CN200910213692	20091210
CN101709262 B	20120523	CN200910213692	20091210
US2012288921 AA	20121115	US20100514389	20100727
WO11069372 A1	20110616	WO2010CN075484	20100727

Priority:

CN200910213692 20091210 WO2010CN75484 20100727

Probable Assignee: GUANGZHOU INST OF ENERGY CONVERSION CHINESE ACADEMY OF SCIENCES

Assignee(s): (std): ZHOU WEIZHENG ; YUAN ZHENHONG ; SHANG CHANGHUA ; WANG ZHONGMING ; YANG KANG ; ZHU SHUNNI ; GUANGZHOU INST ENERGY CONV CAS ; GUANGZHOU INST OF ENERGY CONVERSION CHINESE ACADEM

Assignee(s): GUANGZHOU INST OF ENERGY CONVERSION CHINESE ACADEMY OF SCIENCES ; GUANGZHOU INST OF ENERGY CONVERSION CHINESE ACADEMY OF SCIENCES ; GUANGZHOU INSTITUTE OF ENERGY CONVERSION CHINESE ACADEMY OF SCIENCES ; GUANGZHOU INSTITUTE OF ENERGY CONVERSION CHINESE ACADEMY OF SCIENCES

Inventor(s): (std): ZHENHONG YUAN ; CHANGHUA SHANG ; ZHONGMING WANG ; KANG YANG ; SHUNNI ZHU ; WEIZHENG ZHOU ; ZHOU WEIZHENG ; YANG KANG ; YUAN ZHENHONG ; SHANG CHANGHUA ; WANG ZHONGMING ; ZHU SHUNNI

Agent(s): GUANGZHOU KEYUE I P LAW OFFICE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ 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 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 PE PG PH PL PT RO RS RU 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

8) Family number: 41453374 (US2008032389A)

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Title: DISPOSABLE BIOREACTOR VESSEL PORT

Abstract: A port for use with a bioreactor vessel comprising: i) a base member comprising a hollow tubular portion and a base plate configured to be sealingly affixed to a hole in the wall of a bioreactor vessel ii) a hollow, generally tubular bushing member for containing electrical, optical, microfluidic and/or chemical monitoring components which bushing member fits inside the bore of the tubular portion of the base member, both the base member and bushing member providing access to the contents of a bioreactor by; iii) a monitoring assembly inserted into the bushing member which assembly comprises means for providing incoming optical and/or electrical signals and means for collecting and transmitting measurement signals resulting from the interaction of incoming optical and/or electrical signals with the contents of a bioreactor; and iv) a cover which maintains the position and alignment of components ii) and iii) relative to the base member.

Classifications:

International (IPC 8-9): B32B38/00 B32B38/16 C12M1/00 C12M1/02

C12M1/08 C12M1/26 C12M1/34 C12M1/36 C12M3/06 G01N1/10

G01N21/00 G01N21/25 G01N21/64 G01N27/414 (Advanced/Invention);

G01N21/359 G01N21/552 G01N21/65 G01N21/77 G01N21/78 G01N21/80

G01N21/85 (Advanced/Non-invention);

C12M1/00 C12M1/36 (Core/Invention)

CPC: C12M23/00 C12M29/06 C12M29/00 C12M27/14 G01N21/8507

C12M41/00 C12M23/14 C12M23/28 C12M27/16 G01N21/359 G01N21/552

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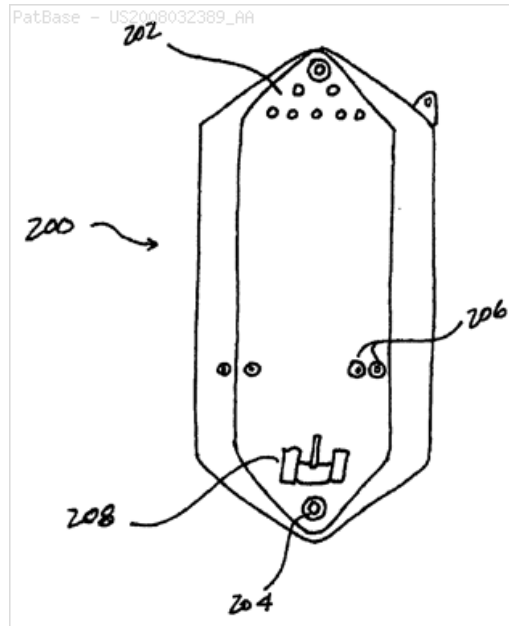
S01N21/77H6 S01N21/78B S01N21/80 S01N21/85B

US: 1/1 156/273.3 156/281 156/329 156/330 156/331.7 435/283.1

435/283.100P 435/287.1 435/288.7 435/289.1 435/295.1 435/295.2

435/309.2 73/863.81 73/863.85

JP F-Term: 4B029 4B029/AA07 4B029/BB01 4B029/FA15

**Family:**

Publication number	Publication date	Application number	Application date
CN102706810 A	20121003	CN201210110032	20120326
CN102706810 B	20171215	CN201210110032	20120326
CN108085246 A	20180529	CN201711104899	20120326
DE602012003289 D1	20141120	DE201260003289T	20120323
DK2046941 T3	20171009	DK20070795356T	20070525
DK2503320 T3	20150105	DK20120161078T	20120323
EP2046941 A1	20090415	EP20070795356	20070525
EP2046941 B1	20170823	EP20070795356	20070525
EP2503320 A2	20120926	EP20120161078	20120323
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EP2503320 B1	20141008	EP20120161078	20120323
EP3246393 A1	20171122	EP20170180340	20070525
ES2517468 T3	20141103	ES20120161078T	20120323
ES2645683 T3	20171207	ES20070795356T	20070525
IN00324KO2012 A	20160826	IN2012KO00324	20120324
JP2012200258 A2	20121022	JP20120069650	20120326
JP5992707 B2	20160914	JP20120069650	20120326
KR101971024 B1	20190422	KR20120030823	20120326
KR20120108954 A	20121005	KR20120030823	20120326
SG184688 A1	20121030	SG20120021812	20120326
US2008032389 AA	20080207	US20070728560	20070326
US2012244608 AA	20120927	US20110134157	20110531
US2012244609 AA	20120927	US20120385100	20120202
US2016130548 AA	20160512	US20160997324	20160115
US2019161723 AA	20190530	US20190261977	20190130
US8008065 BB	20110830	US20070728560	20070326
US9267100 BB	20160223	US20120385100	20120202
US10227555 BB	20190312	US20110134157	20110531
WO08016411 A1	20080207	WO2007US12498	20070525

Priority:

US20060835329P	20060802	US20070728560	20070326	EP20070795356	20070525
WO2007US12498	20070525	US20110465849P	20110325	US20110134157	20110531
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US20160997324	20160115	US20190261977	20190130		

Probable Assignee: FINESSE SOLUTIONS INC**Assignee(s):** (std): FINESSE SOLUTIONS LLC ; JOHNSTON TIMOTHY ; PALDUS BARBARA ; SELKER MARK ; FINESSE SOLUTIONS INC**Assignee(s):** FINESSE SOLUTIONS INC SANTA CLARA**Inventor(s):** (std): TIMOTHY JOHNSTON ; MARK SELKER ; BARBARA PALDUS ; JOHNSTON TIMOTHY ; SELKER MARK ; PALDUS BARBARA**Inventor(s):** JOHNSTON TIMOTHY SAN JOSE ; PALDUS BARBARA SAN JOSE ; SELKER MARK SAN JOSE**Agent(s):** KRAUS AND WEISERT PATENTANWALTE PARTGMBB; BENSON JOHN EVERETT; J A KEMP; LEEMING JOHN GERARD; UNGRIA JAVIER; PONS ANGEL; FUKAMI PATENT OFFICE PC; ELLA CHEONG SPRUSON AND FERGUSON SINGAPORE PTE LTD; HERBERT BURKARD; HERBERT; WEAVER AUSTIN VILLENEUVE AND SAMPSON LLP; BURKARD HERBERT**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM 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 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

9) Family number: 63719391 (US2018116184A)

© PatBase

Title: MULTI-PHASIC INTEGRATED SUPER-INTENSIVE SHRIMP PRODUCTION SYSTEM

Abstract: A method for shrimp aquaculture, in which, all growth phases and essential operations are modularized and integrated to form a multi-phasic synchronous super-intensive shrimp production system controlled by a custom designed cyber-physical platform. Modular components include: post-larvae nursery module(s), grow-out production module(s), recirculating aquaculture system (RAS) module(s), feed distribution module(s) and regulatory elements comprised of Program Logic Controllers (PLCs) integrated with Human Interface Modules (HIMs).

Classifications:**International (IPC 8-9):** A01K61/00 A01K61/13 A01K61/59 A01K61/85

A01K63/00 A01K63/04 A01K63/06 B01D35/02 C02F3/28 G01N27/416

G01N27/48 G01N33/18 G05B19/05 G05D9/12 (Advanced/Invention);

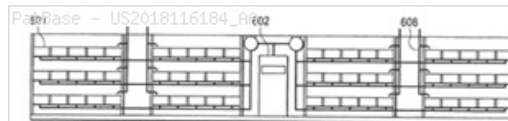
A01K61/00 (Core/Invention)

CPC: A01K63/065 B01D35/02 C02F3/2846 G01N27/4167 G01N27/48

G01N33/18 G05B19/052 G05D9/12 Y02P60/64 A01K61/59 A01K63/006 Y02A40/824 A01K61/85

US: 1/1 119/211**JP F-Term:** 2B104 2B104/AA17 2B104/BA06 2B104/CA01 2B104/CB12 2B104/EA01 2B104/EB01 2B104/EC01 2B104/EC11

2B104/EC24 2B104/EF01 2B104/EF09 2B104/EF10 2B104/EG05

JP F-Index: A01K61/59 A01K63/04/C A01K63/04/F A01K63/06/A A01K63/06/C**Family:**

Publication number	Publication date	Application number	Application date
AU2016243219 AA	20170420	AU20160243219	20160211
BR112017008531 A2	20180619	BR20171108531	20160211
CA2973601 AA	20170711	CA20162973601	20160211
CN106998670 A	20170801	CN201680003778	20160211
EP3277081 A1	20180207	EP20160711377	20160211
IN201717015541 A	20170915	IN201717015541	20170502
JP2018510611 T2	20180419	JP20170526067T	20160211
KR20180068894 A	20180622	KR20177011669	20160211
PH2017500831 A	20171018	PH20170500831	20170504
TH175107 A	20180405	TH20171002848	20160211
US2018116184 AA	20180503	US20160525271	20160211
WO16160141 A1	20161006	WO2016US17588	20160211

Priority:

US20150140392P 20150330

US20160525271 20160211

WO2016US17588 20160211

Probable Assignee: ROYAL CARIDEA LLC**Assignee(s):** (std): BRAND ANTHONY ; BRAND ANTHONY P ; KEMP MAURICE ; ROYAL CARIDEA LLC**Inventor(s):** (std): BRAND ANTHONY P ; KEMP MAURICE ; MAURICE KEMP ; ANTHONY P BRAND**Agent(s):** PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; KIRBY EADES GALE BAKER; TOMKINS AND CO; TANAKA MITSUO; YAMAZAKI HIROSHI; MAEHORI YOSHIYUKI; CONRAD CRAIG C

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

10) Family number: 56827826 (US2016280793A)

© PatBase

Title: ANTI-LAMP1 ANTIBODIES AND ANTIBODY DRUG CONJUGATES, AND USES THEREOF

Abstract: Antibodies are provided which specifically bind human and Macaca fascicularis lysosomal-associated membrane protein 1 (LAMP1) proteins and immunoconjugates comprising said antibodies conjugated or linked to a growth inhibitory agent.

Pharmaceutical compositions comprising antibodies or immunoconjugates of the invention and use of the antibodies or immunoconjugates for the treatment of cancer are also provided, as well as LAMP1 antibodies, isolated nucleic acids, vectors and host cells comprising a sequence encoding said antibodies and the use of said antibody as a diagnostic tool. The application further provides for the detection of LAMP1 gene amplification or gain in cancer cells leading to the determination if patients with cancer are likely to respond to anti-LAMP1 therapy. Therefore, it is proposed an in vitro method of selecting patients with cancer which comprises determining, in a biological sample of a patient with cancer which includes cancer cells, if said patient harbors a LAMP1 gene copy number gain; and selecting the patient based on the presence of LAMP1 gene copy number gain. Anti-LAMP1 therapeutic agent for use for treating cancer in a patient harboring LAMP1 gene copy number gain in cancer cells is further provided.

Classifications:**International (IPC 8-9):** A61K A61K31/537 A61K31/551 A61K39/395

A61K47/48 A61K47/68 A61P A61P35/00 C07D498/18 C07K C07K16/18

C07K16/28 C07K16/30 C07K16/46 C07K19/00 C12N1/15 C12N1/19

C12N1/21 C12N15/09 C12N15/13 C12N5/10 C12N5/16 C12Q C12Q1/02

C12Q1/68 C12Q1/6886 G01N33/53 G01N33/574 (Advanced/Invention);

A61K39/00 (Advanced/Non-invention);

A61K39/395 (Core/Invention);

A61K A61P C07K C12Q (Subclass/Invention)

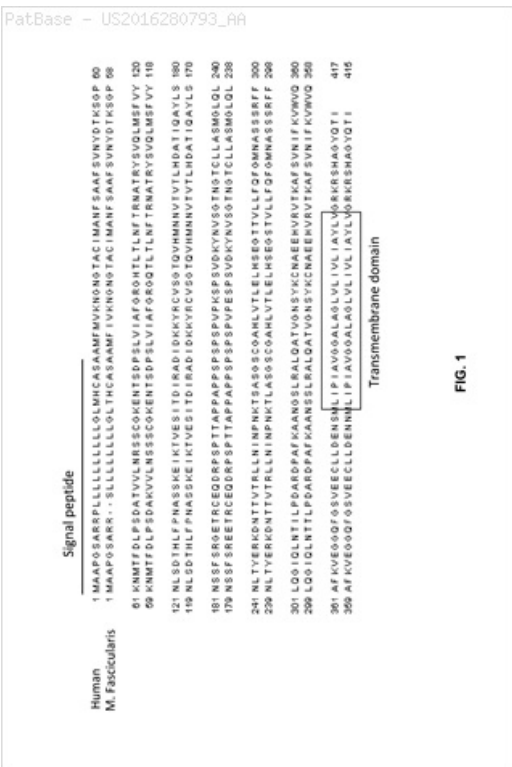
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A61K47/6849 A61K47/6855 A61K47/6857 A61K47/6863 C07K16/2896

C07K2317/24 C07K2317/33 C07K2317/34 C07K2317/73 C07K2317/77
C07K2317/92 G01N33/574 C07K16/30 C07K16/3023 C07K16/3046
C07K16/3069 C07K2317/41 C07K2317/565 C07K2317/732 C12Q1/6886
C12Q2600/106 C12Q2600/156
US: 1/1 424/178.1
JP F-Term: 4B024/AA01 4B024/AA11 4B024/BA61 4B024/CA01
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4B063/QQ79 4B063/QR32 4B063/QR35 4B063/QR55 4B063/QR62
4B063/QR72 4B063/QR77 4B063/QS25 4B063/QS34 4B063/QS36
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4B065/AA90 4B065/AB01 4B065/AC14 4B065/BA01 4B065/BD21
4B065/CA24 4B065/CA44 4B065/CA46 4C076 4C085 4C085/AA26
4C085/AA27 4C085/BB11 4C085/DD62 4C086 4C086/AA01 4C086/AA02
4C086/CB11 4C086/CB22 4C086/MA01 4C086/MA04 4C086/NA05
4C086/ZB26 4C201 4H045 4H045/AA11 4H045/AA30 4H045/BA10
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4H045/EA50 4H045/FA74 4H045/GA01 4H045/GA26
JP F-Index: A61K31/537 A61K31/551 A61K39/395/C A61K39/395/T
A61K47/68 A61P35/00 C07K16/18/ZNA C07K16/46 C12N1/15 C12N1/19
C12N1/21 C12N15/00/A C12N15/13 C12N5/00/101 C12N5/10 C12Q1/02
C12Q1/68/A C12Q1/6886/C C12Q1/6886/Z
JP Facet: ZNA



Family:

Publication number	Publication date	Application number	Application date
AR094292 AA	20150722	AR2013P105042	20131227
AU2013369339 AA	20150716	AU20130369339	20131226
AU2013369339 BB	20181115	AU20130369339	20131226
BR112015015148 A2	20170815	BR20151115148	20131226
CA2896248 AA	20150623	CA20132896248	20131226
CL2015001849 A1	20160108	CL20150001849	20150625
CN105007941 A	20151028	CN201380073860	20131226
CN105007941 B	20190125	CN201380073860	20131226
CO7580551 A2	20160420	CO20150159847	20150710
DOP2015000162 A	20150831	DO20150000162	20150626
EA201591219 A1	20151230	EA20150091219	20131226
EA201690004 A1	20160729	EA20160090004	20131226
EP2938358 A2	20151104	EP20130821489	20131226
EP3400961 A1	20181114	EP20180175369	20131226
HK1210713 A1	20160506	HK20150111595	20151125
ID201703095 A	20170331	ID2015P0004567	20131226
IL239578 A0	20150831	IL20130239578	20131226
IN02450KN2015 A	20160205	IN2015KN02450	20150727
JP2016504342 T2	20160212	JP20150550078T	20131226
JP6441232 B2	20181219	JP20150550078T	20131226
KR20150100848 A	20150902	KR20157019940	20131226
MA38277 A1	20180731	MA20130038277	20131226
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PE20151603 A1	20151120	PE20150001215	20131226
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SG11201504920S A1	20150730	SG20151104920	20131226
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TN2015000291 A1	20161003	TN20150000291	20150623
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US2016280793 AA	20160929	US20150751598	20150626
US2018142032 AA	20180524	US20170720380	20170929
US9809653 BB	20171107	US20150751598	20150626
UY35250 A1	20140731	UY20130035250	20131227
WO14102299 A2	20140703	WO2013EP78017	20131226
WO14102299 A3	20141002	WO2013EP78017	20131226
ZA201504538 A	20161130	ZA20150004538	20150623

Priority:

EP20120306691 20121227 EP20120306694 20121227 WO2013EP78017 20131226
EP20130821489 20131226 US20150751598 20150626 US20170720380 20170929

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Assignee(s): LEFEBVRE ANNE MARIE ; NUNES MANOEL ; MERINO TRIGO ANA ; MATHIEU MAGALI ; BAUDAT YVES ;
BLANCHE FRANCIS ; CAMERON BEATRICE ; DABDOUBI TARIK ; SANOFI

Inventor(s): (std): MERINO TRIGO ANA ; MATHIEU MAGALI ; CAMERON BEATRICE ; NUNES MANOEL ; BLANCHE FRANCIS ;
DABDOUBI TARIK ; LEFEBVRE ANNE MARIE ; BAUDAT YVES ; ANA MERINO TRIGO ; ANNE MARIE LEFEBVRE ;
BEATRICE CAMERON ; MANOEL NUNES ; MAGALI MATHIEU ; TARIK DABDOUBI ; YVES BAUDAT ; FRANCIS
BLANCHE ; MERINO FRIGO ANA ; CAMERON BATRICE ; TARIK MARIE DABDOUBI ; ANNE LEFEBVRE ;
CAMERON BERTRICE

Inventor(s): ANA MERINO FRIGO

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD;
FETHERSTONHAUGH AND CO; ESTUDIO CAREY LTDA; MARGARITA CASTELLANOS ABONDANO; BOUVET
PHILIPPE; STEPHAN HELENE; KWAN WONG AND PARTNERS; DR TOETI HERATY N ROOSSENSO; SANDRA A

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
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SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

11) Family number: 61869910 (US2017247276A)

PatBase

Title: MODULE, REACTOR, SYSTEM AND METHOD FOR TREATING WATER

Abstract: The present disclosure provides a water treatment module, a bioreactor comprising one or more of such modules and a receptive water treatment system. Also provided herein is a method making use of the above module, bioreactor and system. The water treatment module comprises (i) at least one elongated gas enclosure comprising a gas inlet and two vertical walls, at least one vertical wall comprising a water-impermeable and gas-permeable membrane having a water-facing side and a gas-facing side, the two vertical walls separating between water external to said enclosure and gas within said enclosure, the gas enclosure being in a rolled or folded configuration to thereby define a convoluted horizontal path and one or more water-treatment spaces formed between opposite water facing sides of the enclosure; and (ii) a diffuser arrangement comprising gas diffusers configured for introducing a stream of gas into the one or more water treatment spaces.

Classifications:

International (IPC 8-9): B01D63/00 B01D63/10 B01D63/14 B01D69/06
B01D71/26 B01D71/44 B01D71/48 B01F15/02 C02F C02F1/00 C02F1/44
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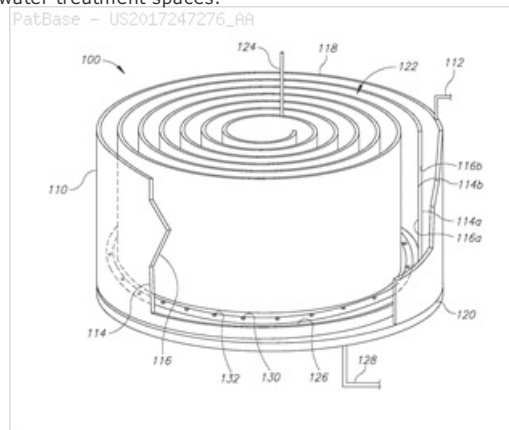
C02F3/34 (Advanced/Invention);
C02F101/16 C02F3/20 (Advanced/Non-invention);
C02F3/10 (Core/Invention);
C02F (Subclass/Invention)

CPC: C02F3/102 C02F3/1278 C02F3/208 C02F3/305 C02F2209/003
C02F2301/026 C02F2303/20 C02F2203/00 Y02W10/15 C02F2101/16
C02F2101/163

US: 1/1 210/150

JP F-Term: 4D006 4D006/GA02 4D006/GA32 4D006/HA61 4D006/HA71
4D006/JA04 4D006/JA07 4D006/JA12 4D006/JA31 4D006/KA01
4D006/KA52 4D006/KA53 4D006/KA62 4D006/KA67 4D006/KB21
4D006/KB23 4D006/KE30 4D006/MB03 4D006/PA01 4D006/PB20 4D028
4D028/AB00 4D028/BB07 4D028/BC17 4D028/BC24 4D028/BD07
4D028/BD17 4D040 4D040/DD03 4D040/DD12 4D040/DD14

JP F-Index: B01D63/00/510 B01D63/10 B01D63/14 B01D69/06
B01D71/26 B01D71/44 B01D71/48 C02F1/44/A C02F3/12/S
C02F3/34/101/A



Family:

Publication number	Publication date	Application number	Application date
AU2015313807 AA	20170427	AU20150313807	20150908
BR112017004520 A2	20180227	BR20171104520	20150908
CA2960369 AA	20170306	CA20152960369	20150908
CN107001086 A	20170801	CN201580060290	20150908
EA201790566 A1	20170831	EA20170090566	20150908
EP3191414 A1	20170719	EP20150778060	20150908
EP3191414 B1	20200304	EP20150778060	20150908
HK1239653 A1	20180511	HK20170113293	20171213
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IN201727010761 A	20170707	IN201727010761	20170327
JP2017527441 T2	20170921	JP20170532233T	20150908
MX2017002973 A1	20171123	MX20170002973	20150908
SG11201701825T A1	20170427	SG20171101825	20150908
TH178630 A	20180809	TH20171001201	20150908
US2017247276 AA	20170831	US20150509565	20150908
US2019389754 AA	20191226	US20190563329	20190906
US10457581 BB	20191029	US20150509565	20150908
WO16038606 A1	20160317	WO20151L50910	20150908
WO16038606 A4	20160602	WO20151L50910	20150908
ZA201702434 A	20180829	ZA20170002434	20170406

Priority:

US20140047267P 20140908 US20150509565 20150908 WO20151L50910 20150908
US20170509565 20170308 US20190563329 20190906

Probable Assignee: EMEFCY LTD

Assignee(s): (std): EMEFCY LTD

Assignee(s): ESHED LIOR ; LEVY EYTAN BARUCH ; SHECHTER RONEN ITZHAK ; SPECTOR TOMER ; SIEGEL NOAM

MORDECHAI ; BAR TAL YARON

Inventor(s): (std): LEVY EYTAN BARUCH ; SIEGEL NOAM MORDECHAI ; SHECHTER RONEN ITZHAK ; ESHED LIOR ; BAR TAL YARON ; SPECTOR TOMER ; EYTAN BARUCH LEVY ; LIOR ESHED ; TOMER SPECTOR ; NOAM MORDECHAI SIEGEL ; YARON BAR TAL ; RONEN ITZHAK SHECHTER

Inventor(s): SHECHTER RONEN LTZHAK

Agent(s): COLLISON AND CO; BERESKIN AND PARR LLP SENCRL SRL; STELLBRINK AND PARTNER PATENTANWAELTE MBB; SPRUSON AND FERGUSON HONG KONG LTD; KITA AOYAMA INT PATENT BUREAU; OLIFF PLC; MORAG SELA TAMAR

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

12) Family number: 51755957 (US2014039210A)

© PatBase

Title: LIQUID CATION EXCHANGER

Abstract: The invention relates to a method for removing an organic compound having one or more positive charges from an aqueous solution. Said method consists of the following steps a) the aqueous solution containing the organic compound, and a hydrophobic organic solution which contains a hydrophobic liquid cation exchanger having one or more negative charges and a negative total charge, are provided, b) the aqueous solution and the organic solution are brought into contact with each other and c) the organic solution is separated from the aqueous solution.

Classifications:

International (IPC 8-9): B01D B01D11/00 B01D11/04 B01J B01J39/04 B01J39/16 C02F C02F1/26 C02F1/42 C02F1/58 C02F101/34 C07C C07C227/00 C07C227/40 C07C229/08 C07C67/62 C12P1/00 C12P13/00 C13B C13B20/14 (Advanced/Invention); C02F1/26 C02F1/42 C02F101/34 C12N1/21 C12N15/31 C12N15/53 C12N15/54 (Advanced/Non-invention); B01D11/04 B01J39/04 (Core/Invention)

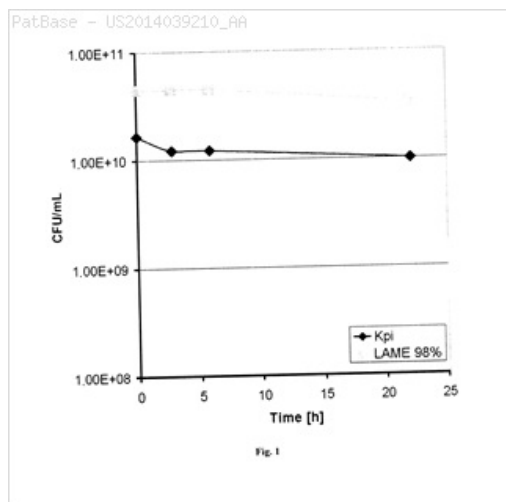
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European: B01D11/04T

US: 1/1 210/638 252/1 435/252.8 554/103 554/114

JP F-Term: 4B064 4B064/AE01 4B064/CA02 4B064/CA19 4B064/CC24 4B064/CE11 4B064/CE20 4B064/DA16 4B065 4B065/AA26 4B065/AA41 4B065/AB01 4B065/AC14 4B065/BA02 4B065/BD29 4B065/BD30 4B065/CA16 4B065/CA54 4B065/CA60 4D038 4D038/AA01 4D038/AB09 4D038/AB10 4D038/AB12 4H006 4H006/AA02 4H006/AD16 4H006/BB31 4H006/BC51 4H006/BC53 4H006/BS10 4H006/BU32

JP F-Index: C02F1/58/A C07C227/40 C07C229/08 C12N1/21 C12P13/00



Family:

Publication number	Publication date	Application number	Application date
AU2011359126 AA	20120823	AU20110359126	20111201
AU2011359126 BB	20160609	AU20110359126	20111201
BR112013020912 A2	20161004	BR20131120912	20111201
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CA2826414 C	20190423	CA20112826414	20111201
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CN103459032 B	20170215	CN201180070166	20111201
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HK1189191 B	20180406	HK20140102162	20140304
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HK1192190 B	20171110	HK20140105576	20140613
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RU2592287 C2	20160720	RU20130141946	20111201
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SG192825 A1	20130930	SG20130062583	20111201
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UA112980 C2	20161125	UA20130010976	20111201
US2014039210 AA	20140206	US20110000067	20111201
US2014054224 AA	20140227	US20110000028	20111201
US9315443 BB	20160419	US20110000067	20111201
US10071951 BB	20180911	US20110000028	20111201
WO12110124 A1	20120823	WO2011EP71491	20111201
WO12110125 A1	20120823	WO2011EP71493	20111201
WO12110126 A1	20120823	WO2011EP71494	20111201

Priority:

EP20110154707 20110216 EP20110191520 20111201 WO2011EP71491 20111201
WO2011EP71494 20111201

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Assignee(s): EVONIK OPERATIONS GMBH ; POTTER MARKUS ; PRZYBYLSKI FREUD MARIE DOMINIQUE ; HAGER HARALD

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Inventor(s): MARIE DOMINIQUE PRZYBYLSKI ; PRZYBYLSKI FREUND ; MARIE DOMINIQUE

Agent(s): SPRUSON AND FERGUSON; FETHERSTONHAUGH AND CO; SMART AND BIGGAR IP AGENCY CO; LEHMANN MARIA ISABEL; CHINA PATENT AGENT HK LTD; SPRUSON AND FERGUSON ASIA PTE LTD; OBLON MCCLELLAND MAIER AND NEUSTADT LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ 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 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 PE PG PH PL PT QA RO RS RU RW 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

13) Family number: 28021695 (US2004227947A)

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Title: ON-LINE METHOD AND EQUIPMENT FOR DETECTING, DETERMINING THE EVOLUTION AND QUANTIFYING A MICROBIAL BIOMASS AND OTHER SUBSTANCES THAT ABSORB LIGHT ALONG THE SPECTRUM DURING THE DEVELOPMENT OF BIOTECHNOLOGICAL PROCESSES

Abstract: The invention relates to a method comprising passing a first variable intensity light beam across a first test-tube (3) wherein the substance (1) to be controlled is circulating. Subsequently, a second fixed-intensity light beam is passed across a second test-tube (4) with a reference sample. The intensities of both beams are compared once they have crossed over the test tubes and the intensity of the first beam is varied so that said intensities are equal. The parameter of interest in the first test tube is calculated by means of signal processing which causes the first beam to vary.

Classifications:

International (IPC 8-9): C12Q1/06 G01N21/31

G01N21/59 (Advanced/Invention);

C12Q1/06 G01N21/31 G01N21/59 (Core/Invention)

International (IPC 1-7): C12Q1/06 G01N21/00 G01N21/59

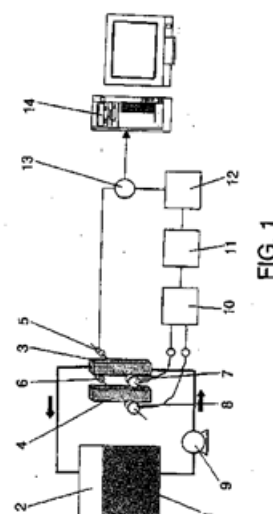
CPC: C12Q1/06 G01N21/3151 G01N21/59 G01N2021/3181

European: C12Q1/06 G01N21/31D4 G01N21/59 S01N21/31D9

US: 356/432 356/432P 356/435

PatBase - US2004227947_AA

Patent Application Publication Nov. 18, 2004 Sheet 1 of 4 US 2004/0227947 A1



Family:

Publication number	Publication date	Application number	Application date
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ES2185496 AA	20030416	ES20010001757	20010717
ES2185496 BA	20050601	ES20010001757	20010717
US2004227947 AA	20041118	US20040757717	20040114
US6975403 BB	20051213	US20040757717	20040114
WO03008948 A1	20030130	WO2002ES00355	20020716

Priority:

ES20010001757 20010717 WO2002ES00355 20020716

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Agent(s): KLAUBER AND JACKSON

Designated states: AT BE BG CA CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR US

14) Family number: 12704923 (US2014048494A)

© PatBase

Title: APPARATUS AND METHOD OF CREATING A CONCENTRATED SUPERSATURATED GASEOUS SOLUTION HAVING IONIZATION POTENTIAL

Abstract: The present invention describes an apparatus and method for creating dense nano-multi molecular packing of gaseous molecules concentrated in liquid solutions and the ionization of the resultant dense gaseous nano-multi-molecular molecules forming a concentration of free-radicals saturating liquid solutions without cavitation of nuclei and without bubbles for the dissolution, destruction, disinfection and remediation of biological, chemical and electrochemical threats and contaminants.

Classifications:

International (IPC 8-9): B01F3/04 C02F1/72 G02B1/10

G02B5/20 (Advanced/Invention);

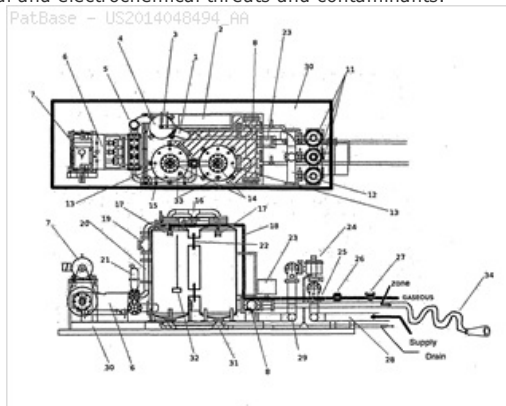
G02B1/10 G02B5/20 (Core/Invention)

International (IPC 1-7): F21V9/06 G02B1/10

CPC: C02F1/72 B01F3/04099 C02F1/20 C02F1/32 C02F2101/105 C02F2101/16 C02F2101/163 C02F2101/166 C02F2101/32 C02F2103/08 C02F2209/005 C02F2301/066 C02F2303/02 C02F2303/04 C02F2305/023 Y02W10/37 C02F1/725 G02B5/208 G02B1/10

European: G02B1/10 G02B5/20V

US: 210/150 210/198.1 210/748.12 261/75 359/350 359/359 359/361 359/582 359/583 359/589 428/699 428/701 502/242 502/350



Family:

Publication number	Publication date	Application number	Application date
US2014048494 AA	20140220	US20130901581	20130524
US6154311 A	20001128	US19980062757	19980420

Priority:

US19980062757 19980420 US19990315593 19990520 US20120651883P 20120525
US20130901581 20130524

Probable Assignee: SIMTEK HARDCOATINGS INC

Assignee(s): (std): SIMMONS JR FREDERICK LEE ; SIMTEK HARDCOATINGS INC

Inventor(s): (std): SIMMONS JR FREDERICK LEE ; FERRANTE RON

15) Family number: 30190223 (US2002160957A)

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Title: Endothelial monocyte activating polypeptide II: a mediator which activates host response

Abstract: This invention provides a purified endothelial monocyte activating polypeptide (EMAP II). It further provides a method of obtaining purified endothelial monocyte activating polypeptide (EMAP II), a method of making antibodies to it and a method of detecting it. This invention also provides an effector cell activating protein which contains an amino acid sequence homologous to RIGRIVT and a method of detecting same. This invention also provides a method of treating a tumor in a subject by administering an effective dose of endothelial monocyte activating polypeptide (EMAP II).

Classifications:

International (IPC 8-9): A61K38/00 A61K38/19 A61K39/395 A61P35/00

A61P43/00 C07H21/04 C07K1/36 C07K14/52 C07K16/24 C12N15/09

C12N15/19 C12P21/02 C12P21/08 C12Q1/02 G01N33/48

G01N33/53 (Advanced/Invention);

A61K38/00 A61K39/395 A61P35/00 A61P43/00 C12N15/09 C12P21/02 C12P21/08 G01N33/53 (Advanced/Non-invention)

International (IPC 1-7): A61K3/800 A61K38/00 A61K38/10 A61K38/19 A61K39/00 A61K39/395 A61K49/00 C07H21/04 C07K1/36 C07K14/52 C07K16/06 C07K16/18 C07K16/24 C07K7/08 C12N15/09 C12N15/19 C12P21/02 C12P21/08 C12Q1/02 G01N33/48 G01N33/53

CPC: C07K16/24 A61K38/00 C07K14/52

European: C07K14/52 C07K16/24 K61K38/00 M07K203/00 M07K207/00

US: 514/12 514/13 514/16.1 514/19.3 514/21.2 514/21.200P 514/21.4 530/324 530/326 530/326S 530/388.1 530/388.100S 530/388.23 530/389.2

JP F-Term: 2G045 4B024 4B024/AA01 4B024/AA11 4B024/BA21 4B024/CA04 4B024/DA06 4B024/EA04 4B024/GA11 4B024/GA18 4B024/GA27 4B024/HA03 4B064 4B064/AG02 4B064/AG26 4B064/AG27 4B064/BA13 4B064/BA14 4B064/CA02 4B064/CA10 4B064/CA19 4B064/CC24 4B064/CE07 4B064/CE10 4B064/CE11 4B064/DA05 4C057 4C057/BB05 4C057/MM04 4C057/MM09 4C084 4C084/AA02 4C084/AA03 4C084/AA06 4C084/AA07 4C084/BA02 4C084/BA05 4C084/BA44 4C084/CA23 4C084/CA36 4C084/DA01 4C084/DA25 4C084/DA39 4C084/MA02 4C084/MA65 4C084/MA66 4C084/ZB11 4C084/ZB26 4C085 4C085/AA06 4C085/AA08 4C085/AA13 4C085/AA14 4C085/AA19 4C085/AA35 4C085/BB11 4C085/BB15 4C085/BB31 4C085/BB36 4C085/CC03 4C085/CC05 4C085/CC07 4C085/CC21 4C085/CC22 4C085/CC23 4C085/DD33 4C085/DD34 4C085/DD51 4C085/DD52 4C085/DD54 4C085/DD61 4C085/DD62 4C085/DD72 4C085/DD88 4C085/EE01 4C085/GG01 4C085/GG05 4C201 4C206 4H045 4H045/AA10 4H045/AA11 4H045/AA20 4H045/AA30 4H045/BA10 4H045/BA71 4H045/CA41 4H045/DA14 4H045/DA70 4H045/DA75 4H045/DA76 4H045/EA28 4H045/FA72 4H045/GA23 4H045/HA05

JP F-Index: A61K37/02/AED A61K38/00 A61K38/01 A61K38/02 A61K38/19 A61K39/395/D A61K39/395/U A61P35/00 A61P43/00/111 C07H21/04/B C07K14/52/ZNA C07K16/24 C12N15/00/A C12P21/02/C C12P21/08 G01N33/53/D

JP Facet: AED ZNA

PatBase - US2002160957_AA

Patent Application Publication Oct. 31, 2002 Sheet 1 of 44 US 2002/0160957 A1

FIGURE 1-1

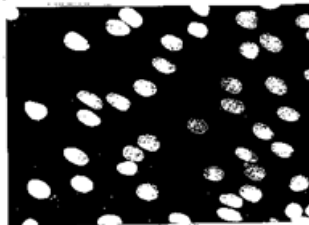
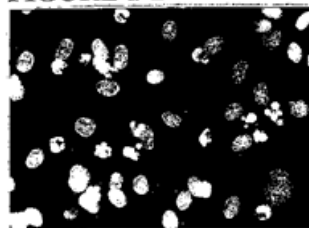


FIGURE 1-2



Family:

Publication number	Publication date	Application number	Application date
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CA2172729 AA	19960326	CA19942172729	19940929
EP0721463 A1	19960717	EP19940930525	19940929
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US6734168 BB	20040511	US20010851026	20010507
WO9509180 A1	19950406	WO1994US11085	19940929

Priority:

US19930129456 19930929 WO1994US11085 19940929 US19960360821 19961008
US20010851026 20010507

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Assignee(s): THE TRUSTEES OF COLUMBIA UNIVERSITY ; TRUSTEES OF COLUMBIA UNIV ; THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF ; TRUSTEES OF COLUMBIA UNIV IN CITY OF NEW YORK ; THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK ; TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK THE ; NATIONAL INST ; NATIONAL INSTITUTES OF HEALTH ; NATIONAL INSTITUTES OF HEALTH (NIH) US DEPT OF HEALTH AND HUMAN SERVICES (DHHS) US GOVERNMENT ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT

Inventor(s): (std): LIBUTTI STEVEN K ; KAYTON MARK ; KAO JANET ; CLAUSS MATTHIAS ; STERN DAVID M

Inventor(s): DAVID M STERN ; MATTHIAS CLAUSS ; MARK KAYTON ; JANET KAO ; STEVEN K LIBUTTI

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; JOHN P WHITE; COOPER AND DUNHAM LLP

Designated states: AT AU BE CA CH DE DK ES FR GB GR IE IT JP LI LU MC NL PT SE US

16) Family number: 32256059 (US2005208473A)

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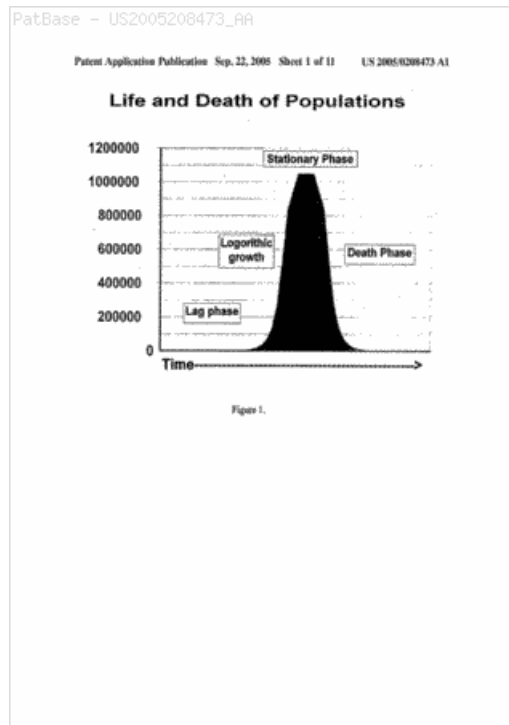
Title: DECISION-MAKING SPECTRAL BIOREACTOR

Abstract: This invention fills several voids in bioreactor technology that allows efficient connection of aspects of physical science (optics, electronics, physical chemistry, sensors) to aspects of microbial and cell culture physiology in a uniquely interactive manner. This is accomplished mathematically through decision making software that utilizes detected changes in the course of fermentation. Decisions are aimed at determining the optima for cellular growth, optimizing for production or degradation of metabolites or substrates, or determining the limits of growth under various combinations of conditions. The invention determines optima or limits in a manner more quickly and at less cost than traditional methods. The basis for the computer generated decisions may be first or second derivative changes observed such as inflection points, limits on allowable rates of change, or the like. The most common measured parameter controlling the decision making process is the optically observed growth of the cells (e.g. microbial, animal, or plant cell cultures) under study. Any other measurable parameter (e.g. pH, temperature, pigment production) may be used to control the process (i.e., the independent variable). This process and variations of this process on a laboratory scale are valuable for research and development, education, pilot plant models, and bio-manufacturing optimization,

including scale up to production volumes.

Classifications:

International (IPC 8-9): C12M1/36 C12P19/04 C12Q1/00 C12Q1/02 C12Q1/04 G01N33/48 G01N33/50 G06F19/00 (Advanced/Invention); C12M1/36 C12P19/00 C12Q1/00 C12Q1/02 C12Q1/04 G01N33/48 G01N33/50 G06F19/00 (Core/Invention)
International (IPC 1-7): C12P19/04 C12Q1/00 G01N33/48 G01N33/50 G06F19/00
CPC: C12Q1/04 Y10S435/813
European: C12Q1/02 C12Q1/04
US: 435/286.5 435/288.7 435/289.1 435/3 435/4 435/813 702/19



Family:

Publication number	Publication date	Application number	Application date
US2005208473 AA	20050922	US20050043431	20050127
US7510864 BB	20090331	US20050043431	20050127

Priority:

US20040539194P 20040127 US20050043431 20050127

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Inventor(s): (std): EPSTEIN MARC J ; BUTZ SAM ; SEIDEN LOUIS W ; SEIDEN STEVEN A ; KRICHEVSKY MICAH I

Inventor(s): SEIDEN STEVEN ; SEIDEN LOUIS ; KRICHEVSKY MICAH ; EPSTEIN MARC

Agent(s): LOUIS W SEIDEN; NOVAK DRUCE AND QUIGG LLP

17) Family number: 30381310 (EP1277831A2)

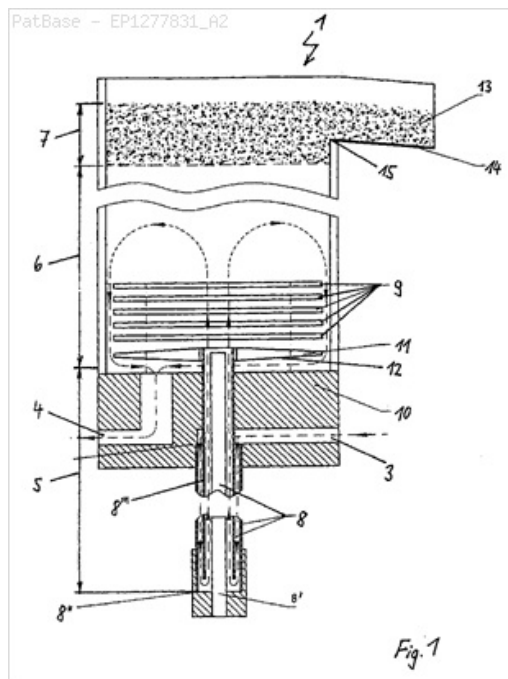
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Title: METHOD AND APPARATUS FOR MICROBIAL BIOMASS PRODUCTION FROM A CELL CULTURE SYSTEM

Abstract: A continual harvesting process from a micro-biological cultivation system (2), comprising: <??>(a) breeding algae in an aqueous nutrient while exploiting electro-kinetic mechanisms; and <??>(b) passing the nutrient and algae flow through a flocculation zone (5), in the vicinity of a direct current electrode system (8), where gas bubbles raise the harvest to the surface as foam (13) for removal, is new. <??>A continual harvesting process from a micro-biological cultivation system (2), comprising: <??>(a) breeding algae in an aqueous nutrient while exploiting electro-kinetic mechanisms; and <??>(b) passing the suspension of nutrient and algae flow through a flocculation zone (5), in the vicinity of a direct current electrode system (8), to a second electrode (9) floatation zone (6) where gas bubbles raise the harvest to the surface as foam (13) for removal by scoop or discharge via a weir to a trap (14), and residual fluid is returned to the cultivation system, is new. <??>An Independent claim is also given for a commensurate assembly (1), comprising: <??>(a) an open or closed cultivation system (2); <??>(b) a by-pass having an inlet (3) and an outlet (4); <??>(c) a flocculation zone (5); <??>(d) a floatation zone (6); <??>(e) an enrichment zone (7); <??>(f) an outlet (4); and <??>(g) two sets of electrodes (9) with different sources of power.

Classifications:

International (IPC 8-9): C12M1/00 C12M1/09 C12M1/42 (Advanced/Invention); C12M1/00 C12M1/04 C12M1/42 (Core/Invention)
International (IPC 1-7): C12M1/00 C12M1/04 C12M1/09 C12M1/42 C12N1/12
CPC: B03D2203/003 C12M41/04 C12M21/02 C12M27/20 C12M33/00 C12M47/02
European: C12M21/02 C12M27/20 C12M33/00 C12M41/04

**Family:**

Publication number	Publication date	Application number	Application date
AT346139 E	20061215	AT20020090240T	20020710
DE10136645 A1	20030206	DE20011036645	20010720
DE10136645 B4	20051103	DE20011036645	20010720
EP1277831 A2	20030122	EP20020090240	20020710
EP1277831 A3	20030702	EP20020090240	20020710
EP1277831 B1	20061122	EP20020090240	20020710

Priority:

DE20011036645 20010720

Probable Assignee: INST GETREIDEVERARBEITUNG**Assignee(s):** (std): INST GETREIDEVERARBEITUNG**Assignee(s):** IGV INST F GETREIDEVERARBEITUNG GMBH ; IGV INSTITUT FUER GETREIDEVERARBEITUNG GMBH**Inventor(s):** (std): SANDAU EKKEHARD ; PULZ OTTO DR DR H C ; GUTJAHR JUERGEN ; DOERFER GERHARD ; FRANKE HORST**Inventor(s):** PULZ OTTO DR DRHC ; PULZ OTTO DR DR HC**Designated states:** AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR