

Search history

Search 1: PN=(WO2016024164) (Results 1)
Search 2: [SP]: aquaculture system and method systeme et procede d (Results 241)
Search 3: IC=(A01K67/033) (Results 9932)
Search 4: 3 and ((mesh or poro*) w2 size) (Results 68)
Search 5: 3 and ((mesh or pore or poro*) w2 size) (Results 133)
Search 6: 5 and PD<20140811 (Results 103)
Search 7: 6 and tank (Results 21)
Search 8: 6 and (tank* or container*) (Results 64)
Search 9: 8 and (arthropod* or insect*) (Results 31)
Search 10: 9 and water (Results 26)

Title: APPARATUSES AND METHODS FOR THE PRODUCTION OF HAEMATOPHAGOUS ORGANISMS AND PARASITES SUITABLE FOR VACCINE PRODUCTION

Abstract: Disclosed are apparatuses and methods for the production of attenuated aseptic parasites in haematophagous **insects** generally, and production of *Plasmodium* species sporozoites in *Anopheles* species mosquitoes specifically; apparatuses and methods for the production of strains of haematophagous **insects** with desired properties such as hypoallergenicity or hyperinfectivity; methods of producing a parasite strain that is capable of withstanding cryopreservation at temperatures close to freezing; apparatuses and methods for the injection of an attenuated parasite vaccine; production of parasites and haematophagous **insects** that are free from contamination by unwanted biological agents; apparatuses for the reconstruction of complex parasitic life cycles aseptically to avoid the contamination of the parasite or the **insect** vector host with unwanted biological agents.

Classifications:

International (IPC 8-9): A01K A01K29/00 A01K67/00 A01K67/03

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C12N15/00 (Core/Invention);

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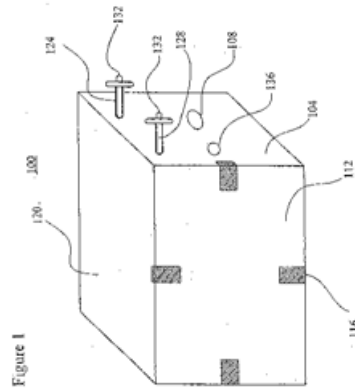
CPC: A01K67/033

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Inventor(s): S ERICKSON ; WALTER A BLATTLER ; WALTER BLATTLER ; SLIWKOWSKI MARK X SAN CARLOS ; CHARI RAVI VJ ; SCHWALL RALPH PACIFICA ; R SCHWALL ; RALPH SCHAWALL ; MARK X SLIWKOWSKI ; MARX X SLIWKOWSKI ; LEONARD G PRESTA ; MARK SILWKOWSKY ; MARK SLIWKOWSKI ; KELSEY STEPHEN ; ERICKSON SHARON HILLSBOROUGH ; CAMELIA W ADAMS ; CAMELLIA W ADAMS ; CAMELLIA W ADAMS LEONARD G PRESTA MARK SILWKOWSKY ; BLATTLER WALTER BROOKLINE ; BLATTLER DR WALTER BROOKLINE ; BLATTLER DRWALTER

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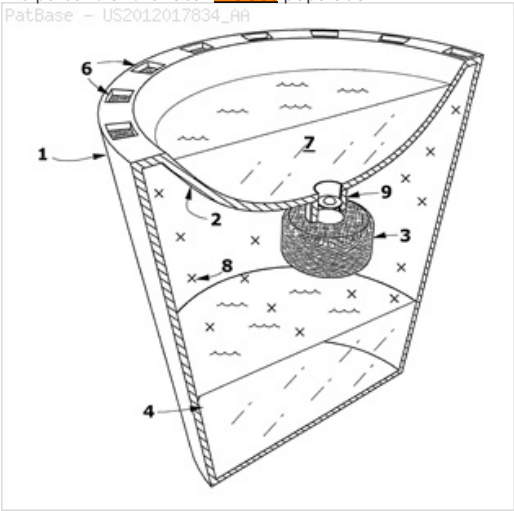
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Title: APPARATUS AND METHOD FOR CONTROLLING MATURATION OF AQUATICALLY HATCHED **INSECTS**

Abstract: There is provided an apparatus and method for controlling maturation of aquatically hatched **insects**. The apparatus comprises a drainable **container** for housing an egg laying medium for the **insects**; a filter operatively connected to the **container** for containing debris in the egg laying medium; and a selectively sealable catch basin located below the **container** for receiving the egg laying medium from the **container** when the **container** is drained. One or more outlets are provided on the catch basin for operatively releasing gas from the catch basin. The apparatus and method enhances the attractiveness of the artificial breeding pool to the gravid **insects** and helps control the local **insect** population.

Classifications:

International (IPC 8-9): A01K29/00 A01K67/033 A01M1/00
A01M1/10 (Advanced/Invention)
CPC: A01M1/106
European: A01M1/10F
US: 119/6.5 119/6.500P



Family:

Publication number	Publication date	Application number	Application date
CA2756221 AA	20101014	CA20092756221	20090408
CA2756221 C	20180313	CA20092756221	20090408
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Priority:

WO2009CA00442 20090408

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Agent(s): GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; BOWN CHRISTOPHER D 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 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

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Assignee(s): (std): COLD SPRING HARBOR LAB COLD SP ; COLD SPRING HARBOR LAB ; BEACH DAVID H ; IMP CANCER RES TECHNOL LTD ; IMP CANCER RES TECH ; HARVARD COLLEGE ; IMP CANCER RES TECHNOLOGY INC ; IMP CANCER RES TECHNOLOGY INST ; HANNON GREGORY J ; DEMETRICK DOUGLAS J ; MARIGO VALERIA ; TABIN CLIFFORD ; MCMAHON ANDREW P ; INGHAM PHILIP W ; TABIN CLIFFORD J ; SERRANO MANUEL ; EINSTEIN COLL MED ; MITOTIX

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Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; HORNER MARTIN GRENVILLE ET AL; ROPES AND GRAY LLP; FISH AND NEAVE IP GROUP, ROPES AND GRAY LLP; HOWREY LLP-CA; HOWREY LLP CA; FISH AND NEAVE IP GROUP OF ROPES AND GRAY LLP; FISH AND NEAVE IP GROUP ROPES AND GRAY LLP; HOWREY LLP; WILMER CUTLER PICKERING HALE AND DORR LLP; VIOLA T

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

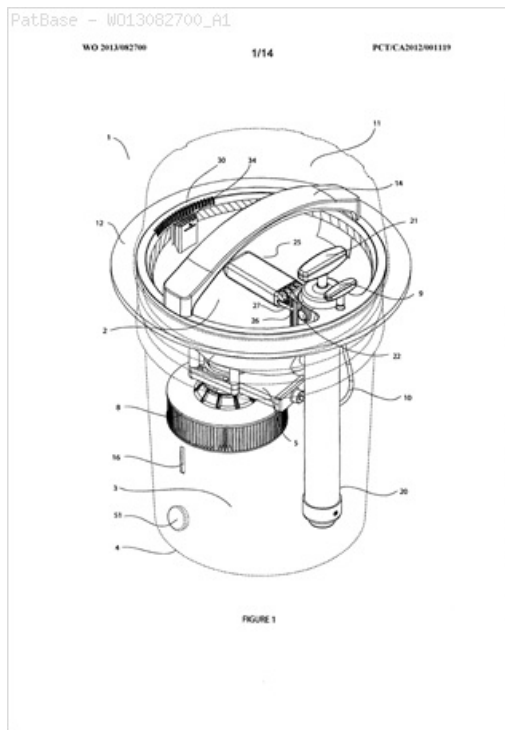
Title: APPARATUS AND METHOD FOR REDUCING POPULATIONS OF MOSQUITOES AND THE LIKE

Abstract: The apparatus has a drainable basin for retaining a liquid, typically **water**, preferably augmented by **insect** attractant(s). The basin has a drain at a lower portion thereof, with a valve to open or close the drain. The drain leads to a filter which removes eggs and larvae from the liquid when the basin is drained by opening the valve. The liquid passing through the filter is collected in a reservoir, from which the filtered liquid may be pumped back up to refill the basin. The apparatus preferably may use a variety of standard **containers**, the **container** then acting as the reservoir. Preferably, one or more **insect** attractant means are employed, including various chemical attractants and light, as well as natural attractants. Vents from the reservoir release attractants concentrated in the reservoir, into the area of the basin. The basin is then drained through the filter into the reservoir.

Classifications:

International (IPC 8-9): A01K67/033 A01M A01M1/00 A01M1/02 A01M1/10 A01M5/02 (Advanced/Invention)

CPC: A01K67/033 A01M1/02 A01M1/106 A01M5/02 Y02A50/371



Family:

Publication number	Publication date	Application number	Application date
AU2012350104 AA	20130613	AU20120350104	20121206
AU2012350104 BB	20180510	AU20120350104	20121206
CA2760919 AA	20130606	CA20112760919	20111206
GB201411626 A0	20140813	GB20140011626	20121206
GB2515406 A1	20141224	GB20140011626	20121206
GB2515406 B2	20171115	GB20140011626	20121206
WO13082700 A1	20130613	WO2012CA01119	20121206
ZA201404582 A	20151125	ZA20140004582	20140623

Priority:

CA20112760919 20111206 WO2012CA01119 20121206

Probable Assignee: MAXTECH MOSQUITO CONTROL INC

Assignee(s): (std): HOLLAND KRISTIAN J K ; KAPUR ASHWANI ; MACKAY TIM ; MAXTECH MOSQUITO CONTROL INC ; ULIBARRI GERARDO ; MAXTECH MOSQUITO CONTROL INC

Inventor(s): (std): HOLLAND KRISTIAN J K ; KAPUR ASHWANI ; MACKAY TIM ; ULIBARRI GERARDO ; VASUDEVA KAILASH C ; TIM MACKAY ; KRISTIAN J K HOLLAND ; KAILASH C VASUDEVA ; GERARDO ULIBARRI ; ASHWANI KAPUR

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; BROWN CHRISTOPHER D ET AL

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

Title: ANTI-DUAL INTEGRIN ANTIBODIES, COMPOSITIONS, METHODS AND USES

Abstract: The present invention relates to at least one novel anti-dual integrin antibodies, including isolated nucleic acids that encode at least one anti-dual integrin antibody, dual integrin, vectors, host cells, transgenic animals or plants, and methods of making and using thereof, including therapeutic compositions, methods and devices.

Classifications:

International (IPC 8-9): A01H5/10 A01K67/033 A61K31/137 A61K31/56 A61K31/7052 A61K38/00 A61K38/18 A61K38/27 A61K39/395 A61K45/00 A61K49/00 A61K51/00 A61P11/06 A61P17/06 A61P21/02 A61P23/00 A61P23/02 A61P25/00 A61P25/02 A61P25/18 A61P25/20 A61P25/24 A61P29/00 A61P31/00 A61P35/00 A61P37/00 A61P37/02 A61P37/04 A61P37/06 A61P43/00 A61P5/00 A61P5/04 A61P5/44 A61P9/00 C07H21/00 C07H21/04 C07K16/28 C07K16/42 C07K16/46 C12N1/00 C12N1/15 C12N1/19 C12N1/20 C12N1/21 C12N15/00 C12N15/09 C12N15/13 C12N15/63 C12N15/79 C12N15/87 C12N5/00 C12N5/02 C12N5/06 C12N5/071 C12N5/08 C12N5/10 C12N5/20 C12N9/96 C12P21/00 C12P21/02 C12P21/06 G01N33/50 G01N33/53 G01N33/577 G01N33/68

G12P21/06 (Advanced/Invention);

C07K16/28 (Advanced/Non-invention);

A01H5/10 A61K31/137 A61K31/7042 A61K38/00 A61K38/27

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A61K A61P C07K C12N G01N (Subclass/Invention)

International (IPC 1-7): A01H5/10 A61K A61K38/00 A61K38/27 A61K39/395 A61K45/00 A61P A61P11/06 A61P17/06 A61P23/00 A61P23/02 A61P25/00 A61P25/02 A61P25/18 A61P25/20 A61P25/24 A61P29/00 A61P31/00 A61P35/00 A61P37/00 A61P37/02 A61P37/04 A61P37/06 A61P43/00 A61P5/00 A61P5/04 A61P5/44 A61P9/00 C07H21/04 C07K C07K16/28 C07K16/40 C07K16/42 C12N15/09 C12N15/13 C12N15/79 C12N5/06 C12N5/10 C12P21/02 G01N G01N33/50 G01N33/53 G01N33/567 G01N33/577

CPC: C07K2317/76 C07K16/2848 C07K16/4258 Y02A50/58

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C07K16/2839 C07K2317/21 C07K2317/565 C07K2317/92

G01N33/5029 G01N33/68 G01N2333/70546

European: C07K16/28B C07K16/28B14 C07K16/42K14B

G01N33/50D2 G01N33/50D2E6 G01N33/68 K01K217/05 K01K267/01

K61K39/505 M07K316/960 M07K317/210 M07K317/565 M07K317/920 S01N333/705D

US: 424/1.11 424/1.110P 424/133.1 424/143.1 424/144.1 424/146.1 424/155.1 424/155.100P 424/172.1 424/172.100P 424/172.100S 424/178.1 424/178.100S 424/85.1 424/85.100S 424/9.1 424/9.100S 435/243 435/243S 435/252.3 435/320.1 435/320.100S 435/325 435/325S 435/326 435/352 435/352S 435/358 435/358S 435/365 435/365S 435/367 435/367S 435/369 435/369S 435/375 435/375S 435/445 435/445S 435/69.1 435/69.6 435/69.600S 435/7.2 435/7.200P 435/7.200S 514/1.7 514/1.700S 514/11.3 514/11.300S 514/12 514/12.1 514/12.100S 514/16.6 514/16.600S 514/17.6 514/17.600S 514/171 514/171S 514/18.3 514/18.300S 514/19.1 514/19.100S 514/19.4 514/19.400S 514/19.5 514/19.500S 514/19.8 514/19.800S 514/43 514/43S 514/649 514/649S 530/387.1 530/387.2 530/387.200S 530/387.3 530/387.300S 530/388.15 530/388.150S 530/388.22 530/388.220S 530/388.26 530/389.1 530/389.100S 530/391.3 530/391.300S 530/391.7 530/391.700S 536/23.53 536/23.530S 800/13 800/13S 800/288 800/288S 800/4 800/4P 800/4S

PatBase - US2003040044_A1

Patent Application Publication Feb. 27, 2003 Sheet 1 of 24 US 2003/0040044 A1

Binding of GenPharm Mabs to $\alpha V\beta 3$

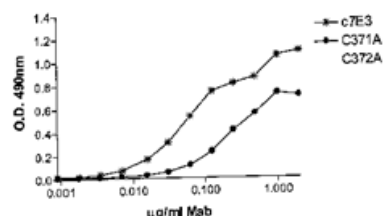


FIGURE 1

Family:

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ZA200301864 A	20040625	ZA20030001864	20030306

Priority:

US20000223363	20000807	US20000223363P	20000807	US20010920267P	20010801
US20010920267	20010801	AU20010283167	20010807	EP20010961945	20010807
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US20070931533	20071031	US20090426996	20090421	US20110292300	20111109

Probable Assignee: JANSSEN BIOTECH INC

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Assignee(s): HEAVNER GEORGE ; JANSSEN BIOTECH INC ; GABONATERMESZTESI KUTATO KOEZHASZNU TARSASAG ; CENTOCOR INC MALVERN PENNSYLVANIA

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Inventor(s): HEAVNER GEORGE 6 OAK GLEN DRIVE ; NAKADA MARIAN

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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 LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Title: Apparatus and method for separation of nematodes from suspension

Abstract: An apparatus and method for separating nematodes from an aqueous suspension is provided.

Classifications:

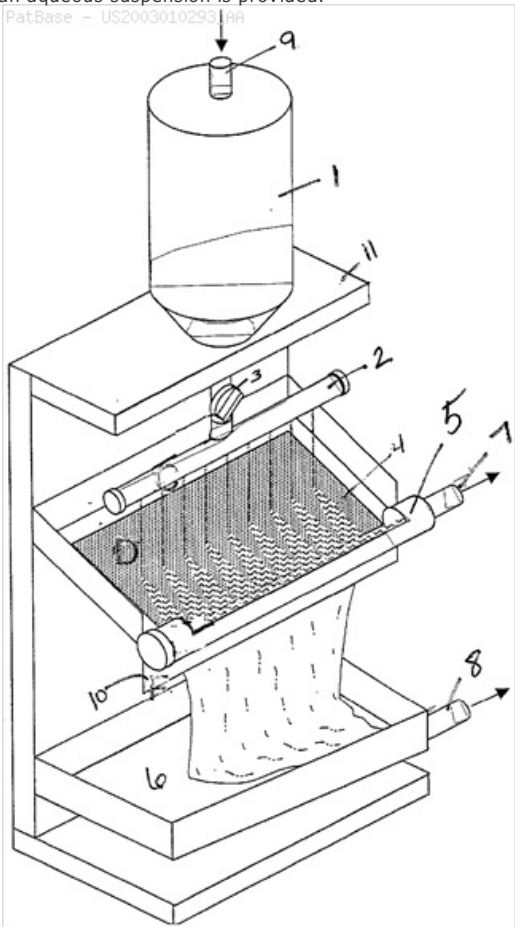
International (IPC 8-9): A01K67/033 (Advanced/Invention);
A01K67/00 (Core/Invention)

International (IPC 1-7): A01K29/00 A01M A61K29/00

CPC: A01K67/033

European: A01K67/033 A01M1/00

US: 119/6.7 119/67



Family:

Publication number	Publication date	Application number	Application date
AU2002338525 AA	20021111	AU20020338525	20020425
US2003010293 AA	20030116	US20020156327	20020524
US6474259 BA	20021105	US20010845816	20010430
US6532891 BB	20030318	US20020156327	20020524
WO02087321 A2	20021107	WO2002US13368	20020425
WO02087321 A3	20040226	WO2002US13368	20020425

Priority:

US20010845816 20010430 WO2002US13368 20020425 US20020156327 20020524

Probable Assignee: RUTGERS STATE UNIV

Assignee(s): (std): BROWN IAN ; GAUGLER RANDY ; UNIV RUTGERS ; RUTGERS THE STATE UNIVERSITY

Assignee(s): RUTGERS THE STATE UNIVERSITY OF NEW JERSEY ; RUTGERS STATE UNIV ; RUTGERS STATE UNIV OF NEW JERSEY ; RUTGERS STATE UNIVERSITY

Inventor(s): (std): BROWN IAN ; GAUGLER RANDY ; RANDY GAUGLER

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 SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Title: High density rearing system for larvae

Abstract: Method and apparatus for rearing **insects** is disclosed. Information concerning the physical and dietary needs of the **insect** as well as behavioral characteristics are utilized to maximize the number of larvae reared per unit surface area of diet and per unit of rearing area while minimizing the amount of labor and materials required. An enclosed rearing unit is provided which can be located within an appropriate environment for rearing the **insects**. There are three sections within the rearing unit: 1) a diet space, 2) a larval space, and 3) a frass space. The diet space includes an appropriate diet medium for the **insects**. The larval space is located below the diet space and includes a series of vertical partitions perpendicular to and in contact with or nearly in contact with the diet medium such that the **insect** larvae are able to disperse themselves over the partitions. The frass space is located below the larval space such that any frass collects within the frass space as it is produced and does not interfere with the larval space or the diet space. The rearing system can further include an emergence pan including an outlet for allowing emerging adults to enter an oviposition cage. The emergence pan replaces the frass collection pan when all of the larvae have pupated. The rearing unit is turned upside down such that the emergence pan is located above the larval space and the diet space.

Classifications:

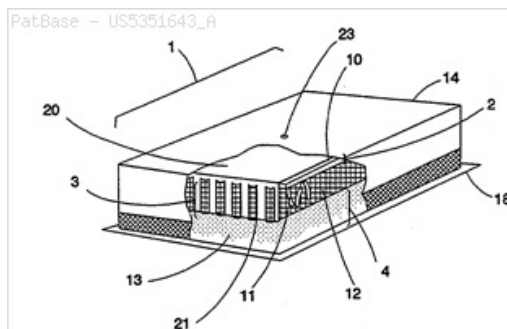
International (IPC 8-9): A01K67/033 (Advanced/Invention)

International (IPC 1-7): A01K67/033 A01K67/04

CPC: A01K67/033

European: A01K67/033

US: 119/6.5



Family:

Publication number	Publication date	Application number	Application date
AT155957 E	19970815	AT19930903541T	19931209
AU199457447 A1	19940704	AU19940057447	19931209
CA2150802 AA	19950601	CA19932150802	19931209
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Priority:

US19920989103 19921211 US19930062417 19930513 US19930093982 19930719
WO1993US11950 19931209

Probable Assignee: THOMPSON BOYCE PLANT RES

Assignee(s): (std): THOMPSON BOYCE PLANT RES

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Inventor(s): (std): HUGHES PATRICK ; HUGHES PATRICK R

Inventor(s): PATRICK R HUGHES

Agent(s): BORDEN LADNER GERVAIS LLP

Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR KZ LI LK LU MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SK SN TD TG UA VN

Title: Novel polypeptides, and nucleic acids encoding the same

Abstract: An isolated polypeptide comprising an amino acid sequence having at least 80 percent sequence identity to the sequence SEQ ID NOS:2, 4, 6 or 8, polynucleotides encoding these peptides, and antibodies to the polypeptides are useful in treating cancers.

Classifications:

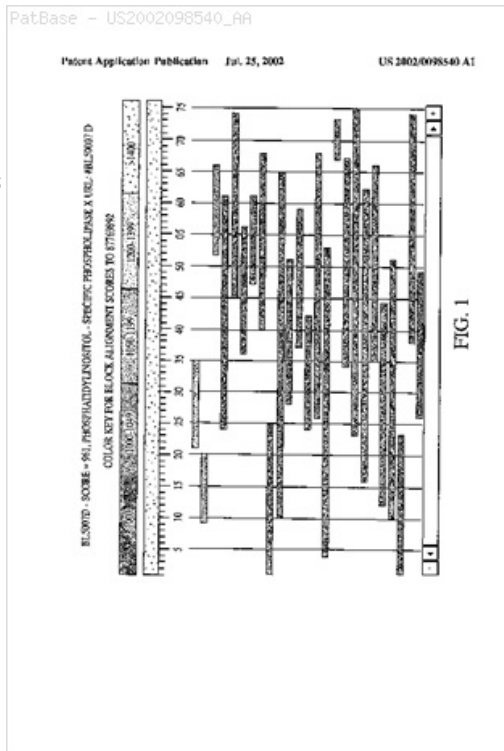
International (ipc 8-9): A01K67/027 A61K31/7088 A61K38/00 A61K38/17 A61K39/395 A61K45/00 A61K48/00 A61P35/00 A61P43/00 A61P9/10 C07H21/04 C07K14/00 C07K14/47 C07K14/82 C07K16/00 C07K16/18 C07K16/30 C12N1/15 C12N1/19 C12N1/21 C12N15/09 C12N15/11 C12N15/12 C12N15/63 C12N5/10 C12P21/06 C12Q1/00 C12Q1/02 C12Q1/68 G01N33/53 (Advanced/Invention); A01K67/027 A61K31/7088 A61K38/00 A61K39/395 A61K45/00 A61K48/00 A61P35/00 A61P43/00 A61P9/00 C07K14/00 C07K14/435 C07K16/18 C12N1/15 C12N1/19 C12N1/21 C12N15/09 C12N15/12 C12N5/10 C12Q1/02 C12Q1/68 (Core/Invention)

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European: C07K14/47 K01K217/05 K01K217/07B K61K48/00 M07K205/00 M07K205/02 M07K207/00 M07K213/00 M07K215/00

US: 424/139.1 424/139.100P 424/155.1 424/155.100 424/155.100S 424/156.1 424/156.100S 435/320.1 435/320.100 435/320.100S 435/325 435/325S 435/354 435/354S 435/4 435/40.5 435/40.500S 435/4S 435/6 435/6.16 435/6.160S 435/69.1 435/69.100 435/69.100P 435/69.100S 514/12 514/13.3 514/13.300P 514/19.3 514/19.300S 514/2 514/21.2 514/21.200S 514/44 514/44.00AS 514/44.00RP 514/44A 514/44R 530/324 530/324S 530/350 530/350S 530/387.1 530/387.100S 530/387.9 530/387.900S 530/388.8 530/388.800 530/388.800S 530/388.85 530/388.850S 536/23.1 536/23.100S 536/23.5 536/23.500 536/23.500S 800/8 800/8S



Family:

Publication number	Publication date	Application number	Application date
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AT382055 E	20080115	AT20010920759T	20010322
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CA2404216 AA	20020919	CA20012404216	20010322
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Priority:

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Probable Assignee: CURAGEN CORP

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Inventor(s): (std): PENNICA DIANE ; RASTELLI K ; RASTELLI LUCA ; RASTELLI LUCA K ; GERRITSEN MARY

Inventor(s): LUCA K RASTELLI ; MARY GERRITSEN ; DIANE PENNICA

Agent(s): GRIFFITH HACK; BARRIGAR INTELLECTUAL PROPERTY LAW; MACLEAN MARTIN ROBERT ET AL; MERCHANT AND GOULD PC

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 EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW