

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2956083

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DOW GLOBAL TECHNOLOGIES INC.	12/22/2009
THE DOW CHEMICAL COMPANY	12/22/2009
RECEIVING PARTY DATA	
Name:	PFENEX INC.
Street Address:	5501 OBERLIN DRIVE
City:	SAN DIEGO
State/Country:	CALIFORNIA
Postal Code:	92121
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14071273
CORRESPONDENCE DATA	
Fax Number:	(858)350-2399
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
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ATTORNEY DOCKET NUMBER:	38194-708.301
NAME OF SUBMITTER:	ASHLEY GARCIA
SIGNATURE:	/ASHLEY GARCIA/
DATE SIGNED:	07/28/2014
Total Attachments: 68	
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Appendix C

Assignment Document

THIS ASSIGNMENT DOCUMENT is effective as of November 30, 2009 by Dow Global Technologies Inc. and The Dow Chemical Company, both Delaware corporations having their principal offices at either 2040 Dow Center, Midland, MI, 48674 USA or 2030 Dow Center, Midland, MI, 48674 USA (hereinafter collectively, "Assignor"), and Assignor is the sole and exclusive owner, by assignment, of issued Letters Patents and applications for Letters Patents listed on Schedule A attached hereto and the inventions describe therein (hereinafter the "Patents and Patent Applications"); and

WHEREAS, Pfenex Inc., a Delaware corporation (hereinafter "Pfenex") having a principal place of business at 5501 Oberlin Drive, San Diego, CA, 92121 (hereinafter "Assignee"), is desirous of acquiring the right, title and interest in, to and under the Patents and Patent Applications:

NOW, THEREFORE, in consideration of good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor has sold, assigned, and transferred, and does hereby sell, assign, and transfer the entire right, title and interest in and to the Patents and Patent Applications and any and all applications for Letters Patent in the United States of America and in all foreign countries and in all Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations, and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the said Assignees, for their own use and the use of their successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents, may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignors, had this sale and assignment not been made.

AND Assignor does hereby sell, assign, transfer, and convey to the Assignee its successors, legal representatives and assigns, all of Assignor's claims for damages and all of Assignor's remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to Assignee, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of above the Letters Patents before or after issuance.

AND Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent or Patents of the United States on said inventions or resulting from said applications and any continuations, continuations-in-part, divisionals and reissues thereof to Assignee as Assignee of the entire interest, and hereby covenants that it has full right to convey the entire interest herein assigned, and that it has not executed, and will not execute, any agreements inconsistent herewith.

December 22, 2009
Date

Michael L. Glenn /KA
Name: Michael L. Glenn
Title: Authorized Representative
Company: The Dow Chemical Company

December 22, 2009
Date

John B. Treangen /KA
Name: John B. Treangen
Title: Authorized Representative
Company: Dow Global Technologies Inc.

Appendix A**Assigned Patents***P/encx Expression TechnologyTM Patents*

Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
62033	United States Of America	BENZOATE- AND ANTHRANILATE- INDUCIBLE PROMOTERS	Provisional Application	60/393422	03 Jul 2002	Expired
62033	Australia	BENZOATE- AND ANTHRANILATE- INDUCIBLE PROMOTERS	PCT Application	2003256365	03 Jul 2003	Filing
62033	Canada	BENZOATE- AND ANTHRANILATE- INDUCIBLE PROMOTERS	PCT Application	2491056	03 Jul 2003	Filing
62033	China	BENZOATE- AND ANTHRANILATE- INDUCIBLE PROMOTERS	PCT Application	03820659.5	03 Jul 2003	Filing
62033	European Procedure (Patents)	BENZOATE- AND ANTHRANILATE- INDUCIBLE PROMOTERS	Euro-PCT Application	03763112.4	03 Jul 2003	Granted

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Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
62033	France	BENZOATE- AND ANTHRANILATE- INDUCIBLE PROMOTERS	Euro-PCT Application	03763112.4	03 Jul 2003	Granted
62033	Germany	BENZOATE- AND ANTHRANILATE- INDUCIBLE PROMOTERS	Euro-PCT Application	03763112.4	03 Jul 2003	Granted
62033	India	BENZOATE- AND ANTHRANILATE- INDUCIBLE PROMOTERS	PCT Application	03/20840	03 Jul 2003	Filing
62033	International Procedure	BENZOATE- AND ANTHRANILATE- INDUCIBLE PROMOTERS	PCT Application	PCT/US03/020840	03 Jul 2003	Rolled Out
62033	Japan	BENZOATE- AND ANTHRANILATE- INDUCIBLE PROMOTERS	PCT Application	2004-519773	03 Jul 2003	Filing
62033	SOUTH KOREA	BENZOATE- AND ANTHRANILATE- INDUCIBLE PROMOTERS	PCT Application	2005-7000077	03 Jul 2003	Filing
62033	Switzerland	BENZOATE- AND ANTHRANILATE- INDUCIBLE PROMOTERS	Euro-PCT Application	03763112.4	03 Jul 2003	Granted

EXECUTION COPY

Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
62033	United Kingdom	BENZOATE- AND ANTHRANILATE- INDUCIBLE PROMOTERS	Euro-PCT Application	03763112.4	03 Jul 2003	Granted
62033	United States Of America	BENZOATE- AND ANTHRANILATE- INDUCIBLE PROMOTERS	Continuation	11/028156	03 Jan 2005	Filing

EXECUTION COPY

Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
62716	United States Of America	PSEUDOMONAD EXPRESSION SYSTEMS WITH AUXOTROPHIC SELECTION MARKERS	Provisional Application	60/523420	19 Nov 2003	Expired
62716	United States Of America	PROTEIN EXPRESSION SYSTEMS	National Patent	10/994138	19 Nov 2004	Abandoned
62716	United States Of America	PROTEIN EXPRESSION SYSTEMS	National Patent Divisional	12/512930	30 Jul 2009	Filing
62716	Australia	IMPROVED PROTEIN EXPRESSION SYSTEMS	PCT Application	2004293810	19 Nov 2004	Filing
62716	Brazil	IMPROVED PROTEIN EXPRESSION SYSTEMS	PCT Application	PI0416744.9	19 Nov 2004	Filing
62716	Canada	IMPROVED PROTEIN EXPRESSION SYSTEMS	PCT Application	2545610	19 Nov 2004	Filing
62716	China	IMPROVED PROTEIN EXPRESSION SYSTEMS	PCT Application	200480040702.7	19 Nov 2004	Publication of Application
62716	European Procedure (Patents)	IMPROVED PROTEIN EXPRESSION SYSTEMS	Euro-PCT Application	04811581.0	19 Nov 2004	Publication of Application

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Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
62716	India	IMPROVED PROTEIN EXPRESSION SYSTEMS	PCT Application	2006/2645	19 Nov 2004	Publication of Application
62716	International Procedure	IMPROVED PROTEIN EXPRESSION SYSTEMS	PCT Application	PCT/US04/038884	19 Nov 2004	Rolled Out
62716	Japan	IMPROVED PROTEIN EXPRESSION SYSTEMS	PCT Application	2006-541422	19 Nov 2004	Publication of Application
62716	Mexico	IMPROVED PROTEIN EXPRESSION SYSTEMS	PCT Application	PA/A/06/005634	19 Nov 2004	Filing
62716	SOUTH KOREA	IMPROVED PROTEIN EXPRESSION SYSTEMS	PCT Application	2006-7009838	19 Nov 2004	Publication of Application
62716	Singapore	IMPROVED PROTEIN EXPRESSION SYSTEMS	PCT Application	200603355-9	19 Nov 2004	Granted

Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
63157	United States Of America	PSEUDOMONAD EXPRESSION SYSTEMS WITH SEC-SYSTEM SECRETION	Provisional Application	60/524124	21 Nov 2003	Expired
63157	United States Of America	IMPROVED EXPRESSION SYSTEMS WITH SEC- SYSTEM SECRETION	National Patent	10/996007	22 Nov 2004	Publication of Application
63157	Australia	IMPROVED PSEUDOMONAD EXPRESSION SYSTEMS WITH SEC-SYSTEM SECRETION	PCT Application	2004317306	22 Nov 2004	Filing
63157	Brazil	IMPROVED PSEUDOMONAD EXPRESSION SYSTEMS WITH SEC-SYSTEM SECRETION	PCT Application	P10416807.0	22 Nov 2004	Filing
63157	Canada	IMPROVED PSEUDOMONAD EXPRESSION SYSTEMS WITH SEC-SYSTEM SECRETION	PCT Application	2546157	22 Nov 2004	Filing
63157	China	IMPROVED PSEUDOMONAD EXPRESSION SYSTEMS WITH SEC-SYSTEM SECRETION	PCT Application	200480034455.X	22 Nov 2004	Filing

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Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
63157	European Procedure (Patents)	IMPROVED PSEUDOMONAD EXPRESSION SYSTEMS WITH SEC-SYSTEM SECRETION	Euro-PCT Application	04817876.8	22 Nov 2004	Publication of Application
63157	India	IMPROVED PSEUDOMONAD EXPRESSION SYSTEMS WITH SEC-SYSTEM SECRETION	PCT Application	2006/2711	22 Nov 2004	Publication of Application
63157	International Procedure	IMPROVED PSEUDOMONAD EXPRESSION SYSTEMS WITH SEC-SYSTEM SECRETION	PCT Application	PCT/US04/039316	22 Nov 2004	Rolled Out
63157	Japan	IMPROVED PSEUDOMONAD EXPRESSION SYSTEMS WITH SEC-SYSTEM SECRETION	PCT Application	2006-541651	22 Nov 2004	Publication of Application
63157	Mexico	IMPROVED PSEUDOMONAD EXPRESSION SYSTEMS WITH SEC-SYSTEM SECRETION	PCT Application	P.A.A/06/005705	22 Nov 2004	Filing

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Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
63157	SOUTH KOREA	IMPROVED PSEUDOMONAD EXPRESSION SYSTEMS WITH SEC-SYSTEM SECRETION	PCT Application	2006-7009779	22 Nov 2004	Publication of Application
63157	Singapore	IMPROVED PSEUDOMONAD EXPRESSION SYSTEMS WITH SEC-SYSTEM SECRETION	PCT Application	200603356-7	22 Nov 2004	Filing

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Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
63651	United States Of America	OVER PRODUCTION OF REDOX COFACTORS INVOLVED IN PROTEIN DISULFIDE BOND FORMATION IS REQUIRED FOR EFFICIENT DISULFIDE BOND FORMATION IN SECRETED OVER- EXPRESSED RECOMBINANT PROTEINS	Provisional Application	60/790059	07 Apr 2006	Expired

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Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
63651	European Procedure (Patents)	OVER PRODUCTION OF REDOX COFACTORS INVOLVED IN PROTEIN DISULFIDE BOND FORMATION IS REQUIRED FOR EFFICIENT DISULFIDE BOND FORMATION IN SECRETED OVER- EXPRESSED RECOMBINANT PROTEINS	Euro-PCT Application	07809007.3	06 Apr 2007	Publication of Application

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Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
63651	International Procedure	OVER PRODUCTION OF REDOX COFACTORS INVOLVED IN PROTEIN DISULFIDE BOND FORMATION IS REQUIRED FOR EFFICIENT DISULFIDE BOND FORMATION IN SECRETED OVER- EXPRESSED RECOMBINANT PROTEINS	PCT Application	PCT/US07/008557	06 Apr 2007	Rolled Out

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Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
63651	United States Of America	OVER PRODUCTION OF REDOX COFACTORS INVOLVED IN PROTEIN DISULFIDE BOND FORMATION IS REQUIRED FOR EFFICIENT DISULFIDE BOND FORMATION IN SECRETED OVER- EXPRESSED RECOMBINANT PROTEINS	National Patent	11/784237	06 Apr 2007	Publication of Application

Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
63841	United States Of America	PROCESS FOR IMPROVED PROTEIN EXPRESSION	Provisional Application	60/591489	26 Jul 2004	Expired
63841	United States Of America	PROCESS FOR IMPROVED PROTEIN EXPRESSION	National Patent	11/189375	26 Jul 2005	Publication of Application
63841	Australia	PROCESS FOR IMPROVED PROTEIN EXPRESSION	PCT Application	2005269527	26 Jul 2005	Filing
63841	Brazil	PROCESS FOR IMPROVED PROTEIN EXPRESSION	PCT Application	P10513826-4	26 Jul 2005	Filing
63841	Canada	PROCESS FOR IMPROVED PROTEIN EXPRESSION	PCT Application	2574953	26 Jul 2005	Filing
63841	China	PROCESS FOR IMPROVED PROTEIN EXPRESSION	PCT Application	200580032245.1	26 Jul 2005	Publication of Application
63841	European Procedure (Patents)	PROCESS FOR IMPROVED PROTEIN EXPRESSION	Euro-PCT Application	05774619.0	26 Jul 2005	Publication of Application
63841	India	PROCESS FOR IMPROVED PROTEIN EXPRESSION	PCT Application	2007/523	26 Jul 2005	Publication of Application

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Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
63841	International Procedure	PROCESS FOR IMPROVED PROTEIN EXPRESSION	PCT Application	PCT/US05/026390	26 Jul 2005	Rolled Out
63841	Japan	PROCESS FOR IMPROVED PROTEIN EXPRESSION	PCT Application	2007-523707	26 Jul 2005	Publication of Application
63841	Mexico	PROCESS FOR IMPROVED PROTEIN EXPRESSION	PCT Application	2007/000970	26 Jul 2005	Publication of Application
63841	SOUTH KOREA	PROCESS FOR IMPROVED PROTEIN EXPRESSION	PCT Application	10-2007-7004418	26 Jul 2005	Publication of Application
63841	Singapore	PROCESS FOR IMPROVED PROTEIN EXPRESSION	PCT Application	200700562-2	26 Jul 2005	Granted

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Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
64111	United States Of America	MANNITOL INDUCED PROMOTOR SYSTEMS IN BACTERIAL HOST CELLS	Provisional Application	60/687763	06 Jun 2005	Expired
64111	Australia	MANNITOL INDUCED PROMOTOR SYSTEMS IN BACTERIAL HOST CELLS	PCT Application	2006255060	06 Jun 2006	Filing
64111	Brazil	MANNITOL INDUCED PROMOTOR SYSTEMS IN BACTERIAL HOST CELLS	PCT Application	PI0611112	06 Jun 2006	Filing
64111	Canada	MANNITOL INDUCED PROMOTOR SYSTEMS IN BACTERIAL HOST CELLS	PCT Application	2610405	06 Jun 2006	Filing
64111	China	MANNITOL INDUCED PROMOTOR SYSTEMS IN BACTERIAL HOST CELLS	PCT Application	200680020110.8	06 Jun 2006	Publication of Application

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Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
64111	European Procedure (Patents)	MANNITOL INDUCED PROMOTOR SYSTEMS IN BACTERIAL HOST CELLS	Euro-PCT Application	06772320.5	06 Jun 2006	Publication of Application
64111	India	MANNITOL INDUCED PROMOTOR SYSTEMS IN BACTERIAL HOST CELLS	PCT Application	2007/9206	06 Jun 2006	Publication of Application
64111	International Procedure	MANNITOL INDUCED PROMOTOR SYSTEMS IN BACTERIAL HOST CELLS	PCT Application	PCT/US06/021958	06 Jun 2006	Rolled Out
64111	Japan	MANNITOL INDUCED PROMOTOR SYSTEMS IN BACTERIAL HOST CELLS	PCT Application	2008-515835	06 Jun 2006	Publication of Application
64111	Mexico	MANNITOL INDUCED PROMOTOR SYSTEMS IN BACTERIAL HOST CELLS	PCT Application	PA/A/07/015355	06 Jun 2006	Filing

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Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
64111	SOUTH KOREA	MANNITOL INDUCED PROMOTOR SYSTEMS IN BACTERIAL HOST CELLS	PCT Application	2008-7000198	06 Jun 2006	Publication of Application
64111	Singapore	MANNITOL INDUCED PROMOTOR SYSTEMS IN BACTERIAL HOST CELLS	PCT Application	200718053-2	06 Jun 2006	Granted
64111	United States Of America	MANNITOL INDUCED PROMOTOR SYSTEMS IN BACTERIAL HOST CELLS	National Patent	11/447553	06 Jun 2006	Granted
64111	United States Of America	MANNITOL INDUCED PROMOTOR SYSTEMS IN BACTERIAL HOST CELLS	National Patent Divisional	12/330723	09 Dec 2008	Publication of Application

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Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
64368	United States Of America	IN SITU BIOMASS MEASUREMENT VIA HIGH OPTICAL DENSITY (OD) FIBER OPTIC PROBE FOR FEED & INDUCTION CONTROL OF FERMENTATION BATCHES	Provisional Application	60/721684	29 Sep 2005	Expired
64368	United States Of America	IN SITU BIOMASS MEASUREMENT VIA HIGH OPTICAL DENSITY (OD) FIBER OPTIC PROBE FOR FEED & INDUCTION CONTROL OF FERMENTATION BATCHES	National Patent	11/528872	28 Sep 2006	Filing

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Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
64723	United States Of America	HIGH COPY NUMBER SELF- REPLICATING PLASMIDS IN PSEUDOMONAS	Provisional Application	61/012236	07 Dec 2007	Expired
64723	International Procedure	HIGH COPY NUMBER SELF- REPLICATING PLASMIDS IN PSEUDOMONAS	PCT Application	PCT/US08/085664	05 Dec 2008	Publication of Application
64723	United States Of America	HIGH COPY NUMBER SELF- REPLICATING PLASMIDS IN PSEUDOMONAS	National Patent	12/328971	05 Dec 2008	Publication of Application

Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
65003	United States Of America	SECRETION PEPTIDE CAUSING INCREASED YIELD OF PERIPLASMICALLY- TARGETED PROTEINS	Provisional Application	60/887476	31 Jan 2007	Expired
65003	United States Of America	SECRETION PEPTIDE CAUSING INCREASED YIELD OF PERIPLASMICALLY- TARGETED PROTEINS	Provisional Application	60/887486	31 Jan 2007	Expired
65003	Australia	SECRETION PEPTIDE CAUSING INCREASED YIELD OF PERIPLASMICALLY- TARGETED PROTEINS	PCT Application	2008210538	30 Jan 2008	Local filing
65003	Brazil	SECRETION PEPTIDE CAUSING INCREASED YIELD OF PERIPLASMICALLY- TARGETED PROTEINS	PCT Application	PCT/US08/052434	30 Jan 2008	Filing

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Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
65003	Canada	SECRETION PEPTIDE CAUSING INCREASED YIELD OF PERIPLASMICALLY- TARGETED PROTEINS	PCT Application	PCT/US08/052434	30 Jan 2008	Filing
65003	China	SECRETION PEPTIDE CAUSING INCREASED YIELD OF PERIPLASMICALLY- TARGETED PROTEINS	PCT Application	PCT/US08/052434	30 Jan 2008	Filing
65003	European Procedure (Patents)	SECRETION PEPTIDE CAUSING INCREASED YIELD OF PERIPLASMICALLY- TARGETED PROTEINS	Euro-PCT Application	08714119.8	30 Jan 2008	Local filing
65003	India	SECRETION PEPTIDE CAUSING INCREASED YIELD OF PERIPLASMICALLY- TARGETED PROTEINS	PCT Application	PCT/US08/052434	30 Jan 2008	Filing

Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
65003	International Procedure	SECRETION PEPTIDE CAUSING INCREASED YIELD OF PERIPLASMICALLY- TARGETED PROTEINS	PCT Application	PCT/US08/052434	30 Jan 2008	Rollled Out
65003	Japan	SECRETION PEPTIDE CAUSING INCREASED YIELD OF PERIPLASMICALLY- TARGETED PROTEINS	PCT Application	PCT/US08/052434	30 Jan 2008	Filing
65003	SOUTH KOREA	SECRETION PEPTIDE CAUSING INCREASED YIELD OF PERIPLASMICALLY- TARGETED PROTEINS	PCT Application	10-2009-7017960	30 Jan 2008	Local filing
65003	Singapore	SECRETION PEPTIDE CAUSING INCREASED YIELD OF PERIPLASMICALLY- TARGETED PROTEINS	PCT Application	200905039	30 Jan 2008	Local filing

EXECUTION COPY

Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
65003	United States Of America	SECRETION PEPTIDE CAUSING INCREASED YIELD OF PERIPLASMICALLY- TARGETED PROTEINS	National Patent	12/022789	30 Jan 2008	Granted
65003	United States Of America	SECRETION PEPTIDE CAUSING INCREASED YIELD OF PERIPLASMICALLY- TARGETED PROTEINS	National Patent	12/604,061		Filing

EXECUTION COPY

Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
65218	United States Of America	IMPROVED EXPRESSION OF SOLUBLE ANTIBODY FRAGMENT BY TRUNCATION OF THE CHI DOMAIN	Provisional Application	60/942997	08 Jun 2007	Expired
65218	International Procedure	IMPROVED EXPRESSION OF SOLUBLE ANTIBODY FRAGMENT BY TRUNCATION OF THE CHI DOMAIN	PCT Application	PCT/US08/066187	06 Jun 2008	Publication of Application
65218	United States Of America	IMPROVED EXPRESSION OF SOLUBLE ANTIBODY FRAGMENT BY TRUNCATION OF THE CHI DOMAIN	National Patent	12/135071	06 Jun 2008	Publication of Application

EXECUTION COPY

Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
65569	United States Of America	A LIBRARY OF MICROBIAL HOSTS FOR RAPID SCREENING TO IDENTIFY CERTAIN STRAIN(S) WITH IMPROVED YIELD AND/OR QUALITY IN THE EXPRESSION OF HETEROLOGOUS PROTEINS	Provisional Application	60/914361	27 Apr 2007	Expired
65569	International Procedure	A LIBRARY OF MICROBIAL HOSTS FOR RAPID SCREENING TO IDENTIFY CERTAIN STRAIN(S) WITH IMPROVED YIELD AND/OR QUALITY IN THE EXPRESSION OF HETEROLOGOUS PROTEINS	PCT Application	PCT/US08/061483	25 Apr 2008	Publication of Application

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Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
65569	United States Of America	A LIBRARY OF MICROBIAL HOSTS FOR RAPID SCREENING TO IDENTIFY CERTAIN STRAIN(S) WITH IMPROVED YIELD AND/OR QUALITY IN THE EXPRESSION OF HETEROLOGOUS PROTEINS	National Patent	12/109554	25 Apr 2008	Publication of Application

Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
65808	United States Of America	GENE OPTIMIZATION	Provisional Application	60/901687	14 Feb 2007	Expired
65808	Australia	GENE OPTIMIZATION	PCT Application	2007254993	30 May 2007	Filing
65808	Brazil	GENE OPTIMIZATION	PCT Application	PI0711878-3	30 May 2007	Filing
65808	Canada	GENE OPTIMIZATION	PCT Application	2649038	30 May 2007	Filing
65808	China	GENE OPTIMIZATION	PCT Application	200780019821.8	30 May 2007	Publication of Application
65808	European Procedure (Patents)	GENE OPTIMIZATION	Euro-PCT Application	07795479.0	30 May 2007	Publication of Application
65808	India	GENE OPTIMIZATION	PCT Application	PCT/US07/012719	30 May 2007	Filing
65808	International Procedure	GENE OPTIMIZATION	PCT Application	PCT/US07/012719	30 May 2007	Rolled Out
65808	Japan	GENE OPTIMIZATION	PCT Application	2009-513248	30 May 2007	Filing
65808	Mexico	GENE OPTIMIZATION	PCT Application	MX/A/08/015213	30 May 2007	Publication of Application
65808	SOUTH KOREA	GENE OPTIMIZATION	PCT Application	10-2008-7029192	30 May 2007	Publication of Application
65808	Singapore	GENE OPTIMIZATION	PCT Application	200807962-6	30 May 2007	Filing
65808	United States Of America	GENE OPTIMIZATION	National Patent	11/809010	30 May 2007	Publication of Application

Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
65810	United States Of America	IDENTIFICATION OF TRANSLATION INITIATION REGIONS (TIRS) WITH DIFFERENT TRANSLATION RATES FOR USE TO OPTIMIZE HETEROLOGOUS PROTEIN YIELD AND/OR QUALITY.	Provisional Application	60/953813	03 Aug 2007	Expired
65810	International Procedure	IDENTIFICATION OF TRANSLATION INITIATION REGIONS (TIRS) WITH DIFFERENT TRANSLATION RATES FOR USE TO OPTIMIZE HETEROLOGOUS PROTEIN YIELD AND/OR QUALITY.	PCT Application	PCT/US08/072070	04 Aug 2008	Publication of Application

Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
65810	United States Of America	IDENTIFICATION OF TRANSLATION INITIATION REGIONS (TIRS) WITH DIFFERENT TRANSLATION RATES FOR USE TO OPTIMIZE HETEROLOGOUS PROTEIN YIELD AND/OR QUALITY.	National Patent	12/185726	04 Aug 2008	Publication of Application
66204	United States Of America	A DESIGN FOR RAPID CLONING OF ONE OR TWO POLYPEPTIDE CHAINS INTO PFENEX EXPRESSION TECHNOLOGY tm VECTORS WHILE INTRODUCING DIVERSITY INTO GENE CONTROL ELEMENTS, THE DNA CODING SEQUENCES AND/OR THE POLYPEPTIDE CHAINS THEMSELVES	Provisional Application	61/041029	31 Mar 2008	Expired

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Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
66204	International Procedure	A DESIGN FOR RAPID CLONING OF ONE OR TWO POLYPEPTIDE CHAINS INTO PFENEX EXPRESSION TECHNOLOGY™ VECTORS WHILE INTRODUCING DIVERSITY INTO GENE CONTROL ELEMENTS, THE DNA CODING SEQUENCES AND/OR THE POLYPEPTIDE CHAINS THEMSELVES	PCT Application	PCT/US09/038895	31 Mar 2009	Filing

Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
66634	International Procedure	HIGH THROUGHPUT SCREENING AND IDENTIFICATION OF ANTIBODY PRODUCT CANDIDATES	PCT Application	PCT/US09/049366	01 Jul 2009	Filing
66634	United States Of America	HIGH THROUGHPUT SCREENING AND IDENTIFICATION OF ANTIBODY PRODUCT CANDIDATES	Provisional Application	61/078292	03 Jul 2008	Expired

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Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
66823	International Procedure	PSEUDOMONAS FLUORESCENS STRAINS FOR PRODUCTION OF EXTRA-CELLULAR RECOMBINANT PROTEIN	PCT Application	PCT/US2009/047918	19 Jun 2009	Filing
66823	United States Of America	PSEUDOMONAS FLUORESCENS STRAINS FOR PRODUCTION OF EXTRA-CELLULAR RECOMBINANT PROTEIN	Provisional Application	61/074718	23 Jun 2008	Expired

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Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
68745	United States Of America	PRODUCTION OF RECOMBINANT PROTEINS UTILIZING NON- ANTIBIOTIC SELECTION METHODS FOR PLASMID MAINTENANCE	Provisional Application	61/177267	11 May 2009	Filing

Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
63622	United States Of America	PROTEIN EXPRESSION SYSTEMS	Provisional Application	60/537148	16 Jan 2004	Expired
63622.1	Australia	EXPRESSION OF MAMMALIAN PROTEINS IN PSEUDOMONAS FLUORESCENS	PCT Application	2005206951	18 Jan 2005	Filing
63622.1	Brazil	EXPRESSION OF MAMMALIAN PROTEINS IN PSEUDOMONAS FLUORESCENS	PCT Application	PI0506917.3	18 Jan 2005	Filing
63622.1	Canada	EXPRESSION OF MAMMALIAN PROTEINS IN PSEUDOMONAS FLUORESCENS	PCT Application	2553503	18 Jan 2005	Filing
63622.1	China	EXPRESSION OF MAMMALIAN PROTEINS IN PSEUDOMONAS FLUORESCENS	PCT Application	200580002645.8	18 Jan 2005	Publication of Application
63622.1	European Procedure (Patents)	EXPRESSION OF MAMMALIAN PROTEINS IN PSEUDOMONAS FLUORESCENS	Euro-PCT Application	05705852.1	18 Jan 2005	Publication of Application
63622.1	India	EXPRESSION OF MAMMALIAN PROTEINS IN PSEUDOMONAS FLUORESCENS	PCT Application	2006/3608	18 Jan 2005	Filing

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Family#	Country	Internal Title	Description Patent Applications / Filing Type	Filing Number	Filing Date	Status
63622.1	International Procedure	EXPRESSION OF MAMMALIAN PROTEINS IN PSEUDOMONAS FLUORESCENS	PCT Application	PCT/US05/001549	18 Jan 2005	Rolled Out
63622.1	Japan	EXPRESSION OF MAMMALIAN PROTEINS IN PSEUDOMONAS FLUORESCENS	PCT Application	2006-549690	18 Jan 2005	Publication of Application
63622.1	Mexico	EXPRESSION OF MAMMALIAN PROTEINS IN PSEUDOMONAS FLUORESCENS	PCT Application	PA/A//06/008061	18 Jan 2005	Publication of Application
63622.1	SOUTH KOREA	EXPRESSION OF MAMMALIAN PROTEINS IN PSEUDOMONAS FLUORESCENS	PCT Application	2006-7014191	18 Jan 2005	Publication of Application
63622.1	Singapore	EXPRESSION OF MAMMALIAN PROTEINS IN PSEUDOMONAS FLUORESCENS	PCT Application	200604702-1	18 Jan 2005	Granted
63622.1	United States Of America	EXPRESSION OF MAMMALIAN PROTEINS IN PSEUDOMONAS FLUORESCENS	Continuation-in- part	11/038901	18 Jan 2005	Publication of Application
63622.2	United States Of America	EXPRESSION OF MAMMALIAN PROTEINS IN PSEUDOMONAS FLUORESCENS	Continuation	11/400840	07 Apr 2006	Publication of Application

Virus-Like Particle Patents

Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
60643	Argentina	MODIFIED PLANT VIRUSES AS VECTORS	National Patent	322168	20 Apr 1992	Granted
60643	Australia	MODIFIED PLANT VIRUSES AS VECTORS	PCT Application	14479/92	02 Apr 1992	Granted
60643	Austria	MODIFIED PLANT VIRUSES AS VECTORS	Euro-PCT Application	92907583.6	02 Apr 1992	Abandoned
60643	Belgium	MODIFIED PLANT VIRUSES AS VECTORS	Euro-PCT Application	92907583.6	02 Apr 1992	Granted
60643	Canada	MODIFIED PLANT VIRUSES AS VECTORS	PCT Application	2108777	02 Apr 1992	Granted
60643	Denmark	MODIFIED PLANT VIRUSES AS VECTORS	Euro-PCT Application	92907583.6	02 Apr 1992	Granted
60643	European Procedure (Patents)	MODIFIED PLANT VIRUSES AS VECTORS	Euro-PCT Application	92907583.6	02 Apr 1992	Rollled Out
60643	France	MODIFIED PLANT VIRUSES AS VECTORS	Euro-PCT Application	92907583.6	02 Apr 1992	Granted
60643	Germany	MODIFIED PLANT VIRUSES AS VECTORS	Euro-PCT Application	69220485.7	02 Apr 1992	Granted
60643	Greece	MODIFIED PLANT VIRUSES AS VECTORS	Euro-PCT Application	92907583.6	02 Apr 1992	Abandoned
60643	Hungary	MODIFIED PLANT VIRUSES AS VECTORS	PCT Application	9302954	02 Apr 1992	Abandoned
60643	International Procedure	MODIFIED PLANT VIRUSES AS VECTORS	PCT Application	PCT/US92/000589	02 Apr 1992	Rollled Out

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
60643	Italy	MODIFIED PLANT VIRUSES AS VECTORS	Euro-PCT Application	92907583.6	02 Apr 1992	Abandoned
60643	Japan	MODIFIED PLANT VIRUSES AS VECTORS	PCT Application	506960/92	02 Apr 1992	Granted
60643	Luxembourg	MODIFIED PLANT VIRUSES AS VECTORS	Euro-PCT Application	92907583.6	02 Apr 1992	Abandoned
60643	Netherlands	MODIFIED PLANT VIRUSES AS VECTORS	Euro-PCT Application	92907583.6	02 Apr 1992	Abandoned
60643	New Zealand	MODIFIED PLANT VIRUSES AS VECTORS	National Patent	242430	22 Apr 1992	Granted
60643	South Africa	MODIFIED PLANT VIRUSES AS VECTORS	National Patent	92/2604	09 Apr 1992	Granted
60643	Spain	MODIFIED PLANT VIRUSES AS VECTORS	Euro-PCT Application	92907583.6	02 Apr 1992	Granted
60643	Sweden	MODIFIED PLANT VIRUSES AS VECTORS	Euro-PCT Application	92907583.6	02 Apr 1992	Granted
60643	Switzerland	MODIFIED PLANT VIRUSES AS VECTORS	Euro-PCT Application	92907583.6	02 Apr 1992	Granted
60643	United Kingdom	MODIFIED PLANT VIRUSES AS VECTORS	Euro-PCT Application	92907583.6	02 Apr 1992	Granted
60643	United Kingdom	MODIFIED PLANT VIRUSES AS VECTORS	National Patent	9108386.5	19 Apr 1991	Abandoned
60643	United States Of America	MODIFIED PLANT VIRUSES AS VECTORS	Continuation	09/580704	30 May 2000	Granted

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
60643	United States Of America	MODIFIED PLANT VIRUSES AS VECTORS	Continuation-in-part	09/304967	05 May 1999	Granted
60643	United States Of America	MODIFIED PLANT VIRUSES AS VECTORS	National Patent Divisional	08/471048	06 Jun 1995	Granted
60643	United States Of America	MODIFIED PLANT VIRUSES AS VECTORS	PCT Application	08/137032	02 Apr 1992	Granted

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
60644	Argentina	MODIFIED PLANT VIRUSES AS VECTORS OF HETEROLOGOUS PEPTIDES	National Patent	332747	12 Jul 1995	Abandoned
60644	Australia	MODIFIED PLANT VIRUSES AS VECTORS OF HETEROLOGOUS PEPTIDES	PCT Application	28934/95	10 Jul 1995	Granted
60644	Brazil	MODIFIED PLANT VIRUSES AS VECTORS OF HETEROLOGOUS PEPTIDES	PCT Application	P19506047.2	10 Jul 1995	Abandoned
60644	Canada	MODIFIED PLANT VIRUSES AS VECTORS OF HETEROLOGOUS PEPTIDES	PCT Application	2170412	10 Jul 1995	Filing
60644	China	MODIFIED PLANT VIRUSES AS VECTORS OF HETEROLOGOUS PEPTIDES	PCT Application	95190795.6	10 Jul 1995	Granted
60644	Czech Republic	MODIFIED PLANT VIRUSES AS VECTORS OF HETEROLOGOUS PEPTIDES	PCT Application	1996-723	10 Jul 1995	Abandoned
60644	European Procedure (Patents)	MODIFIED PLANT VIRUSES AS VECTORS OF HETEROLOGOUS PEPTIDES	Euro-PCT Application	95924436.9	10 Jul 1995	Rolled Out

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
60644	France	MODIFIED PLANT VIRUSES AS VECTORS OF HETEROLOGOUS PEPTIDES	Euro-PCT Application	95924436.9	10 Jul 1995	Granted
60644	Germany	MODIFIED PLANT VIRUSES AS VECTORS OF HETEROLOGOUS PEPTIDES	Euro-PCT Application	95924436.9	10 Jul 1995	Granted
60644	Hungary	MODIFIED PLANT VIRUSES AS VECTORS OF HETEROLOGOUS PEPTIDES	PCT Application	9600586	10 Jul 1995	Abandoned
60644	International Procedure	MODIFIED PLANT VIRUSES AS VECTORS OF HETEROLOGOUS PEPTIDES	PCT Application	PCT/GB95/001618	10 Jul 1995	Rolled Out
60644	Japan	MODIFIED PLANT VIRUSES AS VECTORS OF HETEROLOGOUS PEPTIDES	PCT Application	504789/96	10 Jul 1995	Granted
60644	Netherlands	MODIFIED PLANT VIRUSES AS VECTORS OF HETEROLOGOUS PEPTIDES	Euro-PCT Application	95924436.9	10 Jul 1995	Granted
60644	New Zealand	MODIFIED PLANT VIRUSES AS VECTORS OF HETEROLOGOUS PEPTIDES	PCT Application	289170	10 Jul 1995	Granted

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
60644	SOUTH KOREA	MODIFIED PLANT VIRUSES AS VECTORS OF HETEROLOGOUS PEPTIDES	PCT Application	96-0701197	10 Jul 1995	Granted
60644	Slovakia	MODIFIED PLANT VIRUSES AS VECTORS OF HETEROLOGOUS PEPTIDES	PCT Application	342-96	10 Jul 1995	Abandoned
60644	Switzerland	MODIFIED PLANT VIRUSES AS VECTORS OF HETEROLOGOUS PEPTIDES	Euro-PCT Application	95924436.9	10 Jul 1995	Granted
60644	United Kingdom	MODIFIED PLANT VIRUSES AS VECTORS OF HETEROLOGOUS PEPTIDES	Euro-PCT Application	95924436.9	10 Jul 1995	Granted
60644	United Kingdom	MODIFIED PLANT VIRUSES AS VECTORS OF HETEROLOGOUS PEPTIDES	National Patent	9414118	13 Jul 1994	Abandoned
60644	United States Of America	MODIFIED PLANT VIRUSES AS VECTORS OF HETEROLOGOUS PEPTIDES	PCT Application	08/612858	10 Jul 1995	Granted

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
60816	Argentina	CHIMAERIC PLANT VIRUSES WITH MUCIN PEPTIDES	National Patent	000104759	11 Sep 2000	Abandoned
60816	Belgium	CHIMAERIC PLANT VIRUSES WITH MUCIN PEPTIDES	Euro-PCT Application	00958882.3	11 Sep 2000	Granted
60816	European Procedure (Patents)	CHIMAERIC PLANT VIRUSES WITH MUCIN PEPTIDES	Euro-PCT Application	00958882.3	11 Sep 2000	Rolled Out
60816	France	CHIMAERIC PLANT VIRUSES WITH MUCIN PEPTIDES	Euro-PCT Application	00958882.3	11 Sep 2000	Granted
60816	Germany	CHIMAERIC PLANT VIRUSES WITH MUCIN PEPTIDES	Euro-PCT Application	00958882.3	11 Sep 2000	Granted
60816	International Procedure	CHIMAERIC PLANT VIRUSES WITH MUCIN PEPTIDES	PCT Application	PCT/GB00/003500	11 Sep 2000	Rolled Out
60816	Ireland	CHIMAERIC PLANT VIRUSES WITH MUCIN PEPTIDES	Euro-PCT Application	00958882.3	11 Sep 2000	Granted
60816	Malaysia	CHIMAERIC PLANT VIRUSES WITH MUCIN PEPTIDES	National Patent	20004189	09 Sep 2000	Abandoned
60816	Netherlands	CHIMAERIC PLANT VIRUSES WITH MUCIN PEPTIDES	Euro-PCT Application	00958882.3	11 Sep 2000	Granted

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
60816	Switzerland	CHIMAERIC PLANT VIRUSES WITH MUCIN PEPTIDES	Euro-PCT Application	00958882.3	11 Sep 2000	Granted
60816	United Kingdom	CHIMAERIC PLANT VIRUSES WITH MUCIN PEPTIDES	Euro-PCT Application	00958882.3	11 Sep 2000	Granted
60816	United Kingdom	CHIMAERIC PLANT VIRUSES WITH MUCIN PEPTIDES	Provisional Application	9921337.3	09 Sep 1999	Expired
60816	United States Of America	CHIMAERIC PLANT VIRUSES WITH MUCIN PEPTIDES	PCT Application	10/070566	11 Sep 2000	Granted
60816	Venezuela	CHIMAERIC PLANT VIRUSES WITH MUCIN PEPTIDES	National Patent	2006-00	11 Sep 2000	Abandoned

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
60817	Argentina	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	National Patent	000105455	17 Oct 2000	Abandoned
60817	Australia	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	PCT Application	10852/01	13 Oct 2000	Granted
60817	Brazil	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	PCT Application	PI0014861.0	13 Oct 2000	Publication of Application
60817	Canada	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	PCT Application	2387626	13 Oct 2000	Filing
60817	Chile	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	National Patent	2000-2841	16 Oct 2000	Abandoned
60817	China	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	National Patent Divisional	200910142626.5	13 Oct 2000	Filing

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
60817	China	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	PCT Application	00816753.2	13 Oct 2000	Publication of Application
60817	Colombia	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	National Patent	00078905	17 Oct 2000	Abandoned
60817	Croatia	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	National Patent	20000702	19 Oct 2000	Abandoned
60817	Czech Republic	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	PCT Application	2002-1303	13 Oct 2000	Abandoned
60817	Denmark	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	Euro-PCT Application			Designated
60817	European Procedure (Patents)	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	Euro-PCT Application	00972153.1	13 Oct 2000	Publication of Application

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
60817	France	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	Euro-PCT Application			Designated
60817	Germany	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	Euro-PCT Application			Designated
60817	Gulf Cooperation Council	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	National Patent	2000/989	04 Nov 2000	Abandoned
60817	Gulf Cooperation Council	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	National Patent	2001/1410	04 Jun 2001	Abandoned
60817	India	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	PCT Application	2002/00533	13 Oct 2000	Granted
60817	International Procedure	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	PCT Application	PCT/US00/028430	13 Oct 2000	Rolled Out

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
60817	Israel	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	PCT Application	149077	13 Oct 2000	Abandoned
60817	Japan	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	PCT Application	2001-530485	13 Oct 2000	Filing
60817	Malaysia	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	National Patent	20004844	16 Oct 2000	Abandoned
60817	Mexico	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	PCT Application	2002/003789	13 Oct 2000	Abandoned
60817	Netherlands	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	Euro-PCT Application			Designated
60817	Philippines	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	National Patent	1-2000-02840	16 Oct 2000	Abandoned

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
60817	Poland	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	PCT Application	00/28430	13 Oct 2000	Abandoned
60817	SOUTH KOREA	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	PCT Application	2002-7004778	13 Oct 2000	Granted
60817	South Africa	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	PCT Application	2002/2815	13 Oct 2000	Granted
60817	Spain	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	Euro-PCT Application			Designated
60817	Sweden	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	Euro-PCT Application			Designated
60817	Switzerland	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	Euro-PCT Application			Designated

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
60817	Taiwan	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	National Patent	89121598	15 Jan 2001	Abandoned
60817	Thailand	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	National Patent	061212	19 Oct 2000	Abandoned
60817	United Kingdom	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	Provisional Application	9924352.9	14 Oct 1999	Expired
60817	United States Of America	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	PCT Application	10/110511	13 Oct 2000	Granted
60817	Venezuela	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	National Patent	2321-00	16 Oct 2000	Abandoned
60817.1	United States Of America	VIRAL PARTICLES WITH EXOGENOUS INTERNAL EPITOPES	Continuation	11/528871	28 Sep 2006	Filing

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
60818	Argentina	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	National Patent	000105444	17 Oct 2000	Abandoned
60818	Australia	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	PCT Application	80221/00	13 Oct 2000	Granted
60818	Canada	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	PCT Application	2387629	13 Oct 2000	Filing
60818	Chile	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	National Patent	2000-2840	16 Oct 2000	Abandoned
60818	Colombia	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	National Patent	00078907	17 Oct 2000	Abandoned
60818	Croatia	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	National Patent	20000701	19 Oct 2000	Abandoned
60818	Czech Republic	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	PCT Application	2002-1304	13 Oct 2000	Abandoned

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
60818	European Procedure (Patents)	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	Euro-PCT Application	00970905.6	13 Oct 2000	Rolled Out
60818	France	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	Euro-PCT Application	00970905.6	13 Oct 2000	Granted
60818	Germany	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	Euro-PCT Application	00970905.6	13 Oct 2000	Granted
60818	Gulf Cooperation Council	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	National Patent	2000/991	04 Nov 2000	Abandoned
60818	Gulf Cooperation Council	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	National Patent	2001/1533	25 Jul 2001	Abandoned
60818	International Procedure	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	PCT Application	PCT/US00/028443	13 Oct 2000	Rolled Out
60818	Ireland	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	Euro-PCT Application	00970905.6	13 Oct 2000	Granted

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
60818	Israel	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	PCT Application	149078	13 Oct 2000	Abandoned
60818	Japan	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	PCT Application	2001-529743	13 Oct 2000	Filing
60818	Malaysia	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	National Patent	20004825	14 Oct 2000	Abandoned
60818	Mexico	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	PCT Application	2002/003788	13 Oct 2000	Abandoned
60818	Netherlands	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	Euro-PCT Application	00970905.6	13 Oct 2000	Granted
60818	Philippines	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	National Patent	2000-02841	16 Oct 2000	Abandoned
60818	South Africa	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	PCT Application	2002/2816	13 Oct 2000	Granted

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
60818	Switzerland	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	Euro-PCT Application	00970905.6	13 Oct 2000	Granted
60818	Taiwan	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	National Patent	89121599	16 Oct 2000	Abandoned
60818	Thailand	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	National Patent	061213	19 Oct 2000	Abandoned
60818	United Kingdom	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	Euro-PCT Application	00970905.6	13 Oct 2000	Granted
60818	United Kingdom	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	Provisional Application	9924351.1	14 Oct 1999	Expired
60818	United States Of America	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	PCT Application	10/110683	13 Oct 2000	Granted
60818	Venezuela	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	National Patent	2322-00	16 Oct 2000	Abandoned

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
60818.1	United States Of America	MODIFIED PLANT VIRUSES AND METHODS OF USE THEREOF	Continuation	11/880195	20 Jul 2007	Publication of Application

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
62601	United States Of America	HIGH EFFICIENCY PEPTIDE PRODUCTION IN PSEUDOMONADS	Provisional Application	60/523982	01 Dec 2003	Expired
62601.1	Australia	RECOMBINANT ICOSAHEDRAL VIRUS LIKE PARTICLE PRODUCTION IN PSEUDOMONADS	PCT Application	2004313458	11 Dec 2004	Filing
62601.1	Brazil	RECOMBINANT ICOSAHEDRAL VIRUS LIKE PARTICLE PRODUCTION IN PSEUDOMONADS	PCT Application	P10417159.4	01 Dec 2004	Filing
62601.1	Canada	RECOMBINANT ICOSAHEDRAL VIRUS LIKE PARTICLE PRODUCTION IN PSEUDOMONADS	PCT Application	2547511	01 Dec 2004	Filing
62601.1	China	RECOMBINANT ICOSAHEDRAL VIRUS LIKE PARTICLE PRODUCTION IN PSEUDOMONADS	PCT Application	200480041095.6	01 Dec 2004	Publication of Application

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
62601.1	European Procedure (Patents)	RECOMBINANT ICOSAHEDRAL VIRUS LIKE PARTICLE PRODUCTION IN PSEUDOMONADS	Euro-PCT Application	04821151.0	01 Dec 2004	Publication of Application
62601.1	India	RECOMBINANT ICOSAHEDRAL VIRUS LIKE PARTICLE PRODUCTION IN PSEUDOMONADS	PCT Application	2006/3016	01 Dec 2004	Filing
62601.1	International Procedure	RECOMBINANT ICOSAHEDRAL VIRUS LIKE PARTICLE PRODUCTION IN PSEUDOMONADS	PCT Application	PCT/US04/040117	01 Dec 2004	Rollled Out
62601.1	Japan	RECOMBINANT ICOSAHEDRAL VIRUS LIKE PARTICLE PRODUCTION IN PSEUDOMONADS	PCT Application	2006-542692	01 Dec 2004	Publication of Application
62601.1	Mexico	RECOMBINANT ICOSAHEDRAL VIRUS LIKE PARTICLE PRODUCTION IN PSEUDOMONADS	PCT Application	PA/A/06/006221	01 Dec 2004	Filing

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
62601.1	SOUTH KOREA	RECOMBINANT ICOSAHEDRAL VIRUS LIKE PARTICLE PRODUCTION IN PSEUDOMONADS	PCT Application	10-2006-7010713	01 Dec 2004	Filing
62601.1	Singapore	RECOMBINANT ICOSAHEDRAL VIRUS LIKE PARTICLE PRODUCTION IN PSEUDOMONADS	PCT Application	200603830-1	01 Dec 2004	Granted
62601.1	United States Of America	RECOMBINANT ICOSAHEDRAL VIRUS LIKE PARTICLE PRODUCTION IN PSEUDOMONADS	National Patent	11/001626	01 Dec 2004	Publication of Application

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
63546	United States Of America	HIGH EFFICIENCY PEPTIDE PRODUCTION IN PLANT CELLS	Provisional Application	60/548744	07 Feb 2004	Expired
63546.1	Australia	HIGH EFFICIENCY PEPTIDE PRODUCTION IN PLANT CELLS	PCT Application	2005220734	28 Feb 2005	Filing
63546.1	Canada	HIGH EFFICIENCY PEPTIDE PRODUCTION IN PLANT CELLS	PCT Application	2557668	28 Feb 2005	Filing
63546.1	China	HIGH EFFICIENCY PEPTIDE PRODUCTION IN PLANT CELLS	PCT Application	200580006309.0	28 Feb 2005	Filing
63546.1	European Procedure (Patents)	HIGH EFFICIENCY PEPTIDE PRODUCTION IN PLANT CELLS	Euro-PCT Application	05756363.7	28 Feb 2005	Publication of Application
63546.1	India	HIGH EFFICIENCY PEPTIDE PRODUCTION IN PLANT CELLS	PCT Application	2006/4520	28 Feb 2005	Filing
63546.1	International Procedure	HIGH EFFICIENCY PEPTIDE PRODUCTION IN PLANT CELLS	PCT Application	PC/TUS05/006342	28 Feb 2005	Rolled Out

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
63546.1	Japan	HIGH EFFICIENCY PEPTIDE PRODUCTION IN PLANT CELLS	PCT Application	2007-500784	28 Feb 2005	Publication of Application
63546.1	United States Of America	HIGH EFFICIENCY PEPTIDE PRODUCTION IN PLANT CELLS	PCT Application	11/069601	28 Feb 2005	Publication of Application

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64130	United States Of America	RECOMBINANT FLU VACCINES	Provisional Application	60/700601	19 Jul 2005	Expired
64130.1	Australia	RECOMBINANT FLU VACCINES	PCT Application	2006270065	19 Jul 2006	Filing
64130.1	Brazil	RECOMBINANT FLU VACCINES	PCT Application	PI0613625	19 Jul 2006	Filing
64130.1	Canada	RECOMBINANT FLU VACCINES	PCT Application	2615658	19 Jul 2006	Filing
64130.1	China	RECOMBINANT FLU VACCINES	PCT Application	200680026505.9	19 Jul 2006	Publication of Application
64130.1	European Procedure (Patents)	RECOMBINANT FLU VACCINES	Euro-PCT Application	06787645.8	19 Jul 2006	Publication of Application
64130.1	India	RECOMBINANT FLU VACCINES	PCT Application	2008/271	19 Jul 2006	Filing
64130.1	International Procedure	RECOMBINANT FLU VACCINES	PCT Application	PCT/US06/027764	19 Jul 2006	Rollled Out
64130.1	Japan	RECOMBINANT FLU VACCINES	PCT Application	2008-522877	19 Jul 2006	Publication of Application
64130.1	Mexico	RECOMBINANT FLU VACCINES	PCT Application	2008/000890	19 Jul 2006	Filing
64130.1	SOUTH KOREA	RECOMBINANT FLU VACCINES	PCT Application	2008-7001423	19 Jul 2006	Publication of Application
64130.1	Singapore	RECOMBINANT FLU VACCINES	PCT Application	200800461-6	19 Jul 2006	Granted
64130.1	United States Of America	RECOMBINANT FLU VACCINES	National Patent	11/489691	19 Jul 2006	Publication of Application

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
64136	United States Of America	INACTIVATION OF PLANT VIRUS PARTICLES	Provisional Application	60/742197	02 Dec 2005	Expired
64136.1	Australia	INACTIVATION OF PLANT VIRUS PARTICLES	PCT Application	2006351933	01 Dec 2006	Filing
64136.1	Brazil	INACTIVATION OF PLANT VIRUS PARTICLES	PCT Application	P10619089-8	01 Dec 2006	Filing
64136.1	Canada	INACTIVATION OF PLANT VIRUS PARTICLES	PCT Application	2632245	01 Dec 2006	Filing
64136.1	China	INACTIVATION OF PLANT VIRUS PARTICLES	PCT Application	200680045205.5	01 Dec 2006	Publication of Application
64136.1	European Procedure (Patents)	INACTIVATION OF PLANT VIRUS PARTICLES	Euro-PCT Application	06852018.8	01 Dec 2006	Publication of Application
64136.1	India	INACTIVATION OF PLANT VIRUS PARTICLES	PCT Application	2008/4652	01 Dec 2006	Filing
64136.1	International Procedure	INACTIVATION OF PLANT VIRUS PARTICLES	PCT Application	PCT/US06/046160	01 Dec 2006	Roll Out
64136.1	Japan	INACTIVATION OF PLANT VIRUS PARTICLES	PCT Application	2008-553230	01 Dec 2006	Publication of Application

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
64136.1	Mexico	INACTIVATION OF PLANT VIRUS PARTICLES	PCT Application	MX/A/08/007005	01 Dec 2006	Filing
64136.1	SOUTH KOREA	INACTIVATION OF PLANT VIRUS PARTICLES	PCT Application	2008-7013044	01 Dec 2006	Publication of Application
64136.1	Singapore	INACTIVATION OF PLANT VIRUS PARTICLES	PCT Application	200804141-0	01 Dec 2006	Granted
64136.1	United States Of America	INACTIVATION OF PLANT VIRUS PARTICLES	National Patent	11/607405	01 Dec 2006	Publication of Application

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
64137	United States Of America	PRODUCTION OF MULTIVALENT VIRUS LIKE PARTICLES	Provisional Application	60/686541	01 Jun 2005	Expired
64137.1	Australia	PRODUCTION OF MULTIVALENT VIRUS LIKE PARTICLES	PCT Application	2006309286	01 Jun 2006	Filing
64137.1	Brazil	PRODUCTION OF MULTIVALENT VIRUS LIKE PARTICLES	PCT Application	PI0611336	01 Jun 2006	Filing
64137.1	Canada	PRODUCTION OF MULTIVALENT VIRUS LIKE PARTICLES	PCT Application	2608515	01 Jun 2006	Filing
64137.1	China	PRODUCTION OF MULTIVALENT VIRUS LIKE PARTICLES	PCT Application	200680019623.7	01 Jun 2006	Publication of Application
64137.1	European Procedure (Patents)	PRODUCTION OF MULTIVALENT VIRUS LIKE PARTICLES	Euro-PCT Application	06844120.3	01 Jun 2006	Publication of Application
64137.1	India	PRODUCTION OF MULTIVALENT VIRUS LIKE PARTICLES	PCT Application	2007/9194	01 Jun 2006	Filing

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Family #	Country	Internal Title	Description	Filing #	Filing Date	Current Status
64137.1	International Procedure	PRODUCTION OF MULTIVALENT VIRUS LIKE PARTICLES	PCT Application	PCT/US06/021262	01 Jun 2006	Rolled Out
64137.1	Japan	PRODUCTION OF MULTIVALENT VIRUS LIKE PARTICLES	PCT Application	2008-514849	01 Jun 2006	Filing
64137.1	Mexico	PRODUCTION OF MULTIVALENT VIRUS LIKE PARTICLES	PCT Application	PA/A/07/015162	01 Jun 2006	Filing
64137.1	SOUTH KOREA	PRODUCTION OF MULTIVALENT VIRUS LIKE PARTICLES	PCT Application	2007-7028015	01 Jun 2006	Publication of Application
64137.1	Singapore	PRODUCTION OF MULTIVALENT VIRUS LIKE PARTICLES	PCT Application	200718052-4	01 Jun 2006	Granted
64137.1	United States Of America	PRODUCTION OF MULTIVALENT VIRUS LIKE PARTICLES	National Patent	11/444827	01 Jun 2006	Filing

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64569	United States Of America	METHOD FOR PRODUCTION OF RECOMBINANT BACILLUS ANTHRACIS PROTECTIVE ANTIGEN (rPA)	Provisional Application	60/809536	30 May 2006	Expired
64569.1	European Procedure (Patents)	METHOD FOR PRODUCTION OF RECOMBINANT BACILLUS ANTHRACIS PROTECTIVE ANTIGEN (rPA)	PCT Application	07852377.6	30 May 2007	Publication of Application
64569.1	International Procedure	METHOD FOR PRODUCTION OF RECOMBINANT BACILLUS ANTHRACIS PROTECTIVE ANTIGEN (rPA)	PCT Application	PCT/US07/012842	30 May 2007	Publication of Application
64569.1	United States Of America	METHOD FOR PRODUCTION OF RECOMBINANT BACILLUS ANTHRACIS PROTECTIVE ANTIGEN (rPA)	National Patent	11/809100	30 May 2007	Publication of Application

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64857	United States Of America	IMPROVED SOLUBLE CCMV VLPs PRODUCED IN P. FLUORESCENS	Provisional Application	60/914677	27 Apr 2007	Expired
64857.1	International Procedure	IMPROVED SOLUBLE CCMV VLPs PRODUCED IN P. FLUORESCENS	PCT Application	PCT/US08/061683	25 Apr 2008	Publication of Application
64857.1	United States Of America	IMPROVED SOLUBLE CCMV VLPs PRODUCED IN P. FLUORESCENS	National Patent	12/110257	25 Apr 2008	Publication of Application