PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:			NEW ASSIGNMENT	
NATURE OF CONVEY	YANCE:		ASSIGNMENT	
CONVEYING PARTY	DATA			
		N	lame	Execution Date
Neose Technologies,	Inc.			01/27/2009
)ATA			
Name:	Novo Nordisk /	A/S		
Street Address:	Novo Alle			
City:	2880 Bagsvae	erd		
State/Country:	DENMARK			
Property Ty	уре		Number	
Application Number:	1	11597	588	
Application Number:	1	11909	9599	
Application Number:	1	12092	2125	
Application Number:	1	12092	2128	
Application Number:	1	12297	/488	8
Application Number:	1	12162	2952	
CORRESPONDENCE	DATA			
Fax Number: <i>Correspondence will b</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET	415.442.1 kdeglianto Ada O. W Morgan, I One Mark San Fran	<i>Mail wi</i> 1749 oni@r Vong, Lewis ket, Sp	<i>hen the fax attempt is unsuccessful.</i> morganlewis.com	
500862752			RFFI	PATENT 022699 FRAME: 0109

Total Attachments: 3

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ASSIGNMENT OF PATENTS AND PATENT APPLICATIONS

THIS ASSIGNMENT OF PATENTS AND PATENT APPLICATION ("Assignment") is made as of 1/2700 from NEOSE TECHNOLOGIES INC., a Delaware corporation with its address at 102 Rock Road, Horsham, PA 19044 (the "ASSIGNOR"), to NOVO NORDISK A/S, a limited liability company organized under the laws of Denmark with its address at Novo Allé, 2880 Bagsvaerd, Denmark (the "ASSIGNEE").

WHEREAS (a) The ASSIGNOR is the sole and exclusive owner of all right, title and interest in and to the patents and patent application identified in <u>Schedule A</u> attached hereto, and in and to the inventions that form the subject matter of such patent and patent applications (the "Patents"); and registered owner of the following patents or patent applications ("the Patents"); and

WHEREAS, pursuant to an Asset Purchase Agreement made as of 1/27/09 the ASSIGNOR has sold, assigned, transferred, delivered and contributed all rights to the Patents to the ASSIGNEE and whereas the Assignee has acquire, accepted and received all rights to the Patents from the Assignor.

NOW THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has assigned, and by these presents does assign to Assignee all right, title and interest in and to the inventions and applications, and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States, and to claim the priority from the applications as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignor had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

SAID ASSIGNOR hereby covenants that Assignor has full right to convey the entire right, title and interest herein sold, assigned, transferred and set over.

AND SAID ASSIGNOR hereby further covenants and agrees that Assignor will, at any time, when called upon to do so by the ASSIGNEE, its successors, legal representatives, or assigns, communicate to the ASSIGNEE, its successors, legal representatives, or assigns, as the case may be any facts known to them respecting said discovery or invention, and execute and deliver any and all lawful papers that may be necessary or desirable to perfect the title to the said Letters Patent in the ASSIGNEE, it's successors, legal representatives and assigns, and that if reissues of the said Letters Patent or disclaimers relating thereto shall hereafter be desired by the ASSIGNEE, its successors, legal representatives or assigns, Assignor will, at any time, when called upon to do so by the ASSIGNEE, its successors, legal representatives, or assigns, sign all lawful papers, make all rightful oaths, execute and deliver all such disclaimers and all reissue applications so desired, and do all lawful acts requisite for the application for such reissues and the procuring thereof and for the filing of such disclaimers.

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IN WITNESS WHEREOF, NEOSE TECHNOLOGIES, INC, has caused these presents to be executed by its proper Officer on this 27^{4} day of <u>JANUARY</u>, 2009.

NEOSE TECHNOLOGIES, INC.

By:

Name George J. Vergis, Ph.D. Title President + Chief Executive Officer

Witnessed by:

ypro E. Corklin

JANUARY 27, 2009

IN WITNESS WHEREOF, NOVO NORDISK A/S, has caused these presents to be executed by its proper Officer on this _____ day of ______, 2009.

By:

NOVO NORDISK A/S

Name: Title: Lars Kellberg Corporate Vice President Corporate Patents Novo Nordisk A/S

Date 18-02-2009

Witnessed by: Micael Awald Witnessed by: Name Patant Attorney Noro Nordisk Als

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PATENT REEL: 022699 FRAME: 0112

1. Expression Vectors. Schultz, Joby, Idermasion, Gary US 2. Practical in vitro Sialylation of Recombinant Clycoproteins. Particle, Joby, Idermasion, Gary US 3. Practical in vitro Sialylation of Recombinant Clycoproteins. Particle, Joby, James C., Bayer, Robert J., Sjoberg, US US 4. Methods of Refolding Mammalian Clycosyltransferases Sarrhas, Sami, Hakes, David Jumes Wilter, J., US US 5. Vectors for Recombinant Protein Expression in E. Coli Nume, Harks, David Jumes Wilter, J., Ngo, US US 7. Truncated ST6GalNAci Polypeptides and Nucleic Acids Biakon, Karl F., Bezila, Daniel J., Ngo, US US 7. Truncated GalNAci I2 Polypeptides and Nucleic Acids Idates, Stanin, Harks, Johnet, Leo, US US 8. Novel ST6GalNAci and STGGalI Constructs for Improved Defrees, Shawn A. US 9. Novel ST6GalNAci and STGGalI Constructs for Improved Defrees, Shawn A. US 10. Expansion of Soluble Active Biaxaryotic Olycosyltransferases Schwartz, Mark, Soliman, Tark, Junkar US 11. Expansion of Soluble Factor VIII Peptides in E. Coli Mohosseri, Alakkar US 12. Expansion of S	No.	Title	Inventor(s)	Country	Filed	Application No.	Issued	Patent
Practical in vitro Sialylation of Recombinant Glycoproteins Paulson, James C, Bayer, Robert J, Sjoberg, Eric R. Practical in vitro Sialylation of Recombinant Glycosyttansferases Paulson, James C, Bayer, Robert J, Sjoberg, Eric R. Methods of Refolding Mammalian Glycosyttansferases Valter, Scott Methods of Refolding Mammalian Glycosyttansferases Valter, Scott Nettoding GST-ST3-GAL III) Derives, James Wilter Jr., Valter, Scott Vectors for Recombinant Protein Expression in E. Coli Values, David James Wilter Jr., Values, David James Wilter Jr., Nonel ST6GalNAcl Polypeptides and Nucleic Acids Innocated ST6GalNAcl Polypeptides and Nucleic Acids Jahwa A. Innocated ST6GalNAcl and ST3Gall Constructs for Improved Defress, Shawa A. Novel ST6GalNAcl and ST3Gall Constructs for Improved Defress, Shawa A. Novel ST6GalNAcl and ST3Gall Constructs for Improved Defress, Shawa A. Novel ST6GalNAcl and ST3Gall Constructs for Improved Defress, Shawa A. Novel ST6GalNAcl and ST3Gall Constructs for Improved Defress, Shawa A. Novel ST6GalNAcl and ST3Gall Constructs for Improved Defress, Shawa A. Novel ST6GalNAcl and ST3Gall Constructs for Improved Defress, Shawa A. Novel ST6GalNAcl and ST3Gall Constructs for Improved Defress, Shawa A. E		Expression Vectors	Schultz, Jody, Hermanson, Gary	US	11/7/1997	08/965,850	9/12/2000	6,117,651
Practical in vitro Stalylation of Recombinant Glycoproteins Paulsen, James C, Bayer, Roberl J., Sjoberg, Retolding GST-ST3-GAL III) Methods of Refolding Mammalan Glycosyltransferases Sarnbas, Sami, Hakes, David James Willet Jr, Vactors for Recombinant Protein Expression in E. Coli Joinson, Karl F., Bezila, Daniel J., DeFrees, Shawn A. Vectors for Recombinant Protein Expression in E. Coli Joinson, Karl F., Med, Galt, Li, Sarnbas, Sami Novel STGGalNAcI Polypeptides and Nucleic Acids Joinson, Karl F., Med, Galt, Li, Sarnbas, Sami Novel STGGalNAcI and ST3Gall Constructs for Improved Joinson, Karl F., Clein, Xi Enzymatic Activity and Expression Dofnison, Karl F., Clein, Xi Novel STGGalNAci and ST3Gall Constructs for Improved DeFrees, Shawn A. Enzymatic Activity and Expression Schwartz, Mark, Wu, Bingyuan Enzymatic Activity and Expression Schwartz, Mark, Wu, Bingyuan Novel STIGGallNci and Nucleic Acids Schwartz, Mark, Wu, Bingyuan Enzymatic Activity and Expression of Soluble Active Eukaryotic Glycosyltransferases Schwartz, Mark,	5	Practical in vitro Sialylation of Recombinant Glycoproteins	Paulson, James C., Bayer, Robert J., Sjoberg, Eric R.	NS	1/15/1998	09/007,741	6/4/2002	6,399,366
Methods of Refolding Mammalian Glycosyltransferases Sartbas, Sami, Hakes, David James Willet Jr., Nator, Karl F., Bezila, Daniel J., DeFrees, Shawm A. Vectors for Recombinant Protein Expression in E. Coli Winnic, Hakes, David J., Wei, GeLiu, Li, Saribas, Sami Vectors for Recombinant Protein Expression in E. Coli Winnic, Hakes, David J., Wei, GeLiu, Li, Saribas, Sami Vectors for Recombinant Protein Expression in E. Coli Winnic, Hakes, David J., Wei, GeLiu, Li, Saribas, Sami Novel STGGAINAcl Polypeptides and Nucleic Acids Johnson, Karl F., Berzia, Daniel J., Ngo, Iruncated GaINAc72 Polypeptides and Nucleic Acids Johnson, Karl F., Chen, Xi Novel STGGAINAcl and ST3GaII Constructs for Improved Defrees, Shawn A. Enzymatic Activity and Expression Donstructs for Improved Defrees, Shawn A. Enzymatic Activity and Expression Schwartz, Mark, Soliman, Tarik Defrees, Shawn A. Expression of Soluble Active Eukaryotic Glycosyltransferases Schwartz, Mark, Wu, Bingyum A., Expression of Soluble Active Eukaryotic Glycosyltransferases Schwartz, Mark, Wu, Bingyum A., Expression of Soluble Active Eukaryotic Glycosyltransferases Schwartz, Mark, Wu, Bingyum A., Expression of Soluble Active Eukaryotic Glycosyltransferases Schwartz, Mark, Wu, Bingyum A., Expression of Soluble Active Eukaryotic Glycosyltrans	÷.	Practical in vitro Sialylation of Recombinant Glycoproteins	Paulson, James C., Bayer, Robert J., Sjoberg, Eric R.	ns	2/21/2002	10/081,455	5/22/2007	7,220,555
Johnson, Karl F., Bezila, Daniel J., Defrees, Shawn A., Johnson, Karl F., Bezila, Daniel J., Ngo, Ninuie, Hakes, David J., Wei, Beinett, Eric, P. Truncated ST6GalNAc1 Polypeptides and Nucleic Acids Johnson, Karl F., Bezila, Daniel J., Ngo, Winnie, Hakes, David J., Wei, Saribas, Sami Truncated ST6GalNAc1 Polypeptides and Nucleic Acids Johnson, Karl F., Jesu, Bennett, Eric, P. Novel ST6GalNAc1 Polypeptides and Nucleic Acids Johnson, Karl F., Jesu, Janiel J., Ngo, Winnie, Hakes, David J., Wei, Saribas, Sami Novel ST6GalNAc1 and ST3Gal1 Constructs for Improved Defrees, Shawn A. Enzymatic Activity and Expression Defrees, Shawn A. Novel ST6GalNAci and ST3Gal1 Constructs for Improved Defrees, Shawn A. Expression of Soluble Active Eukaryotic Glycosyltransferases Schwartz, Mark, Soliman, Tarik Expression of Soluble Active Eukaryotic Glycosyltransferases Schwartz, Mark, Wu, Bingyuan Expression of Soluble Therapeutic Proteins in E. Coli Mobasseri, Aliakhar, Defrees, Shawn A. Expression of Soluble Therapeutic Proteins in E. Coli Mobasseri, Aliakhar, Defrees, Shawn A. Expression of Soluble Therapeutic Proteins in E. Coli Mobasseri, Aliakhar, Defrees, Shawn A. Expression of Soluble Therapeutic Proteins in E. Coli Mobasseri, Aliakhar, Defrees, Shawn A. Expression of Soluble Therapeutic Proteins in E. Coli Mobas	4.	Methods of Refolding Mammalian Glycosyltransferases (Refolding GST-ST3-GAL III)	Saribas, Sami, Hakes, David James Willet Jr., Walter, Scott	SU	2/4/2005	10/587,769		
Vectors for Recombinant Protein Expression in E. Coli Johnson, Karl F., Bezila, Daniel J., Ngo, Vinnie, Hakes, David J., Wei, GeLin, Li, Saribas, Sami Truncated ST6GalNAcl Polypeptides and Nucleic Acids Hakes, David J., Wei, GeLin, Li, Saribas, Sami Truncated GalNAcT2 Polypeptides and Nucleic Acids Johnson, Karl F., Chen, Xii Truncated GalNAcT2 Polypeptides and Nucleic Acids Johnson, Karl F., Chen, Xii Novel ST6GalNAcl and ST3Gall Constructs for Improved Defrees, Shawn A. Enzymatic Activity and Expression Novel ST6GalNAcl and ST3Gall Constructs for Improved Defrees, Shawn A. Euzymatic Activity and Expression Enzymatic Activity and Expression Defrees, Shawn A. Expression of Soluble Therapeutic Proteins in E. Coli Schwartz, Mark, Wu, Bingyuan Expression of Soluble Therapeutic Proteins in E. Coli Schwartz, Mark, Wu, Bingyuan Expression of Soluble Therapeutic Proteins in E. Coli Schwartz, Mark, Wu, Bingyuan Expression of Soluble Factor VIII Peptides in E. Coli Mobasseri, Aliakbar, Defrees, Shawn A. Expression of Soluble Factor VIII Peptides in E. Coli Mobasseri, Aliakbar, Defrees, Shawn A. Expression of Soluble Factor VIII Peptides in E. Coli Mobasseri, Aliakbar, Defrees, Shawn A. Expression of Soluble Factor VIII Peptides in E. Coli Mobasseri, Ali			Johnson, Karl F., Bezila, Daniel J., DeFrees, Shawn A.					
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Novel ST6GalNAcl and ST3GalI Constructs for Improved DeFrees, Shawn A. Enzymatic Activity and Expression DeFrees, Shawn A. Enzymatic Activity and Expression Enzymatic Activity and Expression Enzymatic Activity and Expression Expression of Soluble Active Eukaryotic Glycosyltransferases Schwartz, Mark, Soliman, Tarik Defrees, Shawn A. Expression of Soluble Active Eukaryotic Glycosyltransferases Schwartz, Mark, Wu, Bingyuan In Prokaryotic Organisms Schwartz, Mark, Wu, Bingyuan Expression of Soluble Therapeutic Proteins in E. Coli Schwartz, Mark, Wu, Bingyuan Mobasseri, Aliakbar, DeFrees, Shawn A., Soliman, Tarik, Johnson, Karl F. Expression of Soluble Therapeutic Proteins in E. Coli Mobasseri, Aliakbar, DeFrees, Shawn A., Schwartz, Mark, Wu, Bingyuan Mobasseri, Aliakbar, DeFrees, Shawn A., Schwartz, Mark, Wu, Bingyuan Mobasseri, Aliakbar, DeFrees, Shawn A., Schwartz, Mark, Wu, Bingyuan Mobasseri, Aliakbar, DeFrees, Shawn A., Schwartz, Mark, Wu, Bingyuan Mobasseri, Aliakbar, DeFrees, Shawn A., Expression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingyuan Expression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingyuan Expr	7.	Truncated GalNAcT2 Polypeptides and Nucleic Acids	Johnson, Karl F., Chen, Xi Taudte, Susann, Saribas, Sami	NS	11/20/2006	11/597,588		
Novel ST6GalNAcl and ST3Gal1 Constructs for Improved DeFrees, Shawn A. Enzymatic Activity and Expression Enzymatic Activity and Expression Enzymatic Activity and Expression Expression of Soluble Active Eukaryotic Glycosyltransferases Schwartz, Mark, Soliman, Tarik Expression of Soluble Active Eukaryotic Glycosyltransferases Expression of Soluble Therapeutic Proteins in E. Coli Schwartz, Mark, Wu, Bingyuan Prokaryotic Organisms Schwartz, Mark, Wu, Bingyuan Expression of Soluble Therapeutic Proteins in E. Coli Schwartz, Mark, Wu, Bingyuan Rexpression of Soluble Therapeutic Proteins in E. Coli Schwartz, Mark, Wu, Bingyuan Rexpression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingyuan Rexpression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingyuan Rexpression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingyuan Rexpression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingyuan Rexpression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingyuan Rexpression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingyuan Rexpression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingyuan Rexpression o	∞i	Novel ST6GalNAcl and ST3Gal1 Constructs for Improved Enzymatic Activity and Expression	DeFrees, Shawn A.	ns	6/2/2008	12/093,013		
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Expression of Soluble Active Eukaryotic Glycosyltransferases Schwartz, Mark, Soliman, Tarik in Prokaryotic Organisms Schwartz, Mark, Wu, Bingvuan Expression of Soluble Therapeutic Proteins in E. Coli Schwartz, Mark, Wu, Bingvuan Expression of Soluble Therapeutic Proteins in E. Coli Schwartz, Mark, Wu, Bingvuan Expression of Soluble Therapeutic Proteins in E. Coli Schwartz, Mark, Wu, Bingvuan Expression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingvuan Respression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingvuan Respression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingvuan Respression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingvuan Respression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingvuan Respression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingvuan Respression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingvuan Respression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingvuan Respression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingvuan Respression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingvuan Expression of Soluble Factor VIII Peptides in	10.	Expression of Soluble Active Eukaryotic Glycosyltransferases in Prokaryotic Organisms	Schwartz, Mark, Soliman, Tarik	ns	3/24/2006	11/388,595	-	
Expression of Soluble Therapeutic Proteins in E. Coli Schwartz, Mark, Wu, Bingyuan Mobasseri, Aliakbar, DeFrees, Shawn A, Soliman, Tarik, Johnson, Karl F. Schwartz, Mark, Wu, Bingyuan Mobasseri, Aliakbar, DeFrees, Shawn A, Expression of Soluble Therapeutic Proteins in E. Coli Schwartz, Mark, Wu, Bingyuan Robasseri, Aliakbar, DeFrees, Shawn A, Soliman, Tarik, Johnson, Karl F Expression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingyuan Robasseri, Aliakbar, DeFrees, Shawn A, Soliman, Tarik, Wu, Bingyuan Expression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingyuan Robasseri, Aliakbar, DeFrees, Shawn A, Soliman, Tarik Expression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingyuan Robasseri, Aliakbar, DeFrees, Shawn A, Soliman, Tarik Expression of O-Glycosylated Therapeutic Proteins in DeFrees, Shawn A, Prokaryotic Microorganisms DeFrees, Shawn A, Marc F., Johnson, Karl F., DeFrees, Shawn A, Schwartz, Modifications of CST-II for Increased Protein Expression Johnson, Karl F., DeFrees, Shawn A, Modifications of CST-II for Increased Protein Expression Johnson, Karl F., DeFrees, Shawn A,		Expression of Soluble Active Eukaryotic Glycosyltransferases in Prokaryotic Organisms	Schwartz, Mark, Soliman, Tarik	SU	9/24/2007	11/909,599		
Expression of Soluble Therapeutic Proteins in E. Coli Schwartz, Mark, Wu, Bingyuan Robasseri, Aliakbar, DeFrees, Shawn A., Soliman, Tarik Johnson, Karl F Expression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingyuan Mobasseri, Aliakbar, DeFrees, Shawn A., Soliman, Tarik, Wu, Bingyuan Expression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingyuan Mobasseri, Aliakbar, DeFrees, Shawn A., Soliman Tarik Expression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingyuan Robasseri, Aliakbar, DeFrees, Shawn A., Soliman, Tarik Expression of O-Glycosylated Therapeutic Proteins in Mobasseri, Aliakbar, Zopf, David A., Schwartz, Prokaryotic Microorganisms DeFrees, Shawn A., Zopf, David A., Schwartz, Marc F., Johnson, Karl F., DeFrees, Shawn A., Modifications of CST-II for Increased Protein Expression Modifications of CST-II for Increased Protein Expression Johnson, Karl F., DeFrees, Shawn A.	12.	Expression of Soluble Therapeutic Proteins in E. Coli	Schwartz, Mark, Wu, Bingyuan Mobasseri, Aliakbar, DeFrees, Shawn A., Soliman, Tarik, Johnson, Karl F.	ns	4/30/2008	12/092,125		
Expression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingyuan Expression of Soluble Factor VIII Peptides in E. Coli Mobasseri, Aliakbar, DeFrees, Shawn A., Expression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingyuan Expression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingyuan Expression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingyuan Expression of O-Glycosylated Therapeutic Proteins in Mobasseri, Aliakbar, DeFrees, Shawn A., Prokaryotic Microorganisms DeFrees, Shawn A., Zopf, David A., Schwartz, Expression of O-Glycosylated Therapeutic Proteins in DeFrees, Shawn A., Zopf, David A., Schwartz, Marc F., Johnson, Karl F., Dohnson, Karl F., Dohnson, Karl F., Dohnson, Karl F., DeFrees, Shawn A. Modifications of CST-II for Increased Protein Expression Modifications of CST-II for Increased Protein Expression Johnson, Karl F., DeFrees, Shawn A.	13.	Expression of Soluble Therapeutic Proteins in E. Coli	Schwartz, Mark, Wu, Bingyuan Mobasseri, Aliakbar, DeFrees, Shawn A., Soliman, Tarik Johnson, Karl F	PCT	9/6/2006	PCT/US2006/34844		
Expression of Soluble Factor VIII Peptides in E. Coli Schwartz, Mark, Wu, Bingyuan Expression of Soluble Factor VIII Peptides in E. Coli Mobasseri, Aliakbar, DeFrees, Shawn A., Expression of O-Glycosylated Therapeutic Proteins in Mobasseri, Aliakbar, DeFrees, Shawn A., Prokaryotic Microorganisms Marc F., Johnson, Karl F., Expression of O-Glycosylated Therapeutic Proteins in DeFrees, Shawn A., Zopf, David A., Schwartz, Prokaryotic Microorganisms Marc F., Johnson, Karl F., Modifications of CST-II for Increased Protein Expression Johnson, Karl F., DeFrees, Shawn A. Modifications of CST-II for Increased Protein Expression Johnson, Karl F., DeFrees, Shawn A.	14.	Expression of Soluble Factor VIII Peptides in E. Coli	Schwartz, Mark, Wu, Bingyuan Mobasseri, Aliakbar, DeFrees, Shawn A., Soliman Tarik	SU	4/30/2008	12/092,128		
Expression of O-Glycosylated Therapeutic Proteins in Prokaryotic Microorganisms DeFrees, Shawn A., Zopf, David A., Schwartz, Marc F., Johnson, Karl F. Expression of O-Glycosylated Therapeutic Proteins in Prokaryotic Microorganisms DeFrees, Shawn A., Zopf, David A., Schwartz, Marc F., Johnson, Karl F. Modifications of CST-II for Increased Protein Expression Johnson, Karl F., DeFrees, Shawn A. Modifications of CST-II for Increased Protein Expression Johnson, Karl F., DeFrees, Shawn A.	15.	Expression of Soluble Factor VIII Peptides in E. Coli	Schwartz, Mark, Wu, Bingyuan Mobasseri, Aliakbar, DeFrees, Shawn A., Soliman, Tarik	PCT	10/31/2006	PCT/US2006/042765		
Expression of O-Glycosylated Therapeutic Proteins in DeFrees, Shawn A., Zopf, David A., Schwartz, Prokaryotic Microorganisms Marc F., Johnson, Karl F. Modifications of CST-II for Increased Protein Expression Johnson, Karl F., DeFrees, Shawn A. Modifications of CST-II for Increased Protein Expression Johnson, Karl F., DeFrees, Shawn A.	I6.	Expression of O-Glycosylated Therapeutic Proteins in Prokaryotic Microorganisms	DeFrees, Shawn A., Zopf, David A., Schwartz, Marc F., Johnson, Karl F	SU	10/17/2008	12/297,488		
Modifications of CST-II for Increased Protein Expression Johnson, Karl F., DeFrees, Shawn A. Modifications of CST-II for Increased Protein Expression Johnson, Karl F., DeFrees, Shawn A.		Expression of O-Glycosylated Therapeutic Proteins in Prokaryotic Microorganisms	DeFrees, Shawn A., Zopf, David A., Schwartz, Marc F., Johnson, Karl F.	PCT	4/19/2007	PCT/US2007/09782		
Modifications of CS1-II for Increased Protein Expression Johnson, Karl F., DeFrees, Shawn A.		Modifications of CST-II for Increased Protein Expression	Johnson, Karl F., DcFrees, Shawn A.	SU	7/31/2008	12/162,952		
	- 89	Modifications of US I-II for Increased Protein Expression 7906 v1	Johnson, Karl F., DeFrees, Shawn A.	PCT	2/1/2007	PCT/US2007/02878		

Schedule A

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RECORDED: 05/18/2009

PATENT REEL: 022699 FRAME: 0113