

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT																																				
NATURE OF CONVEYANCE:	ASSIGNMENT																																				
CONVEYING PARTY DATA																																					
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr><td>James C. Sutton</td><td>05/16/2007</td></tr> <tr><td>Marion Wiesmann</td><td>05/16/2007</td></tr> <tr><td>Mika K. Lindvall</td><td>06/06/2007</td></tr> <tr><td>Jiong Lan</td><td>06/06/2007</td></tr> <tr><td>Savithri Ramurthy</td><td>06/20/2007</td></tr> <tr><td>Anu Sharma</td><td>06/06/2007</td></tr> <tr><td>William P. Lenahan</td><td>05/10/2007</td></tr> <tr><td>Susan Kaufman</td><td>05/30/2007</td></tr> <tr><td>Simon C. Ng</td><td>05/15/2007</td></tr> <tr><td>Keith Pfister</td><td>05/10/2007</td></tr> <tr><td>Victoria Sung</td><td>09/05/2007</td></tr> <tr><td>Martin Sendzik</td><td>05/10/2007</td></tr> <tr><td>Weibo Wang</td><td>06/09/2007</td></tr> <tr><td>Allan Wagman</td><td>06/08/2007</td></tr> <tr><td>Liana M. Klivansky</td><td>06/06/2007</td></tr> <tr><td>Hong Yang</td><td>06/18/2007</td></tr> <tr><td>Elizabeth J. Mieuli</td><td>08/24/2007</td></tr> </tbody> </table>		Name	Execution Date	James C. Sutton	05/16/2007	Marion Wiesmann	05/16/2007	Mika K. Lindvall	06/06/2007	Jiong Lan	06/06/2007	Savithri Ramurthy	06/20/2007	Anu Sharma	06/06/2007	William P. Lenahan	05/10/2007	Susan Kaufman	05/30/2007	Simon C. Ng	05/15/2007	Keith Pfister	05/10/2007	Victoria Sung	09/05/2007	Martin Sendzik	05/10/2007	Weibo Wang	06/09/2007	Allan Wagman	06/08/2007	Liana M. Klivansky	06/06/2007	Hong Yang	06/18/2007	Elizabeth J. Mieuli	08/24/2007
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RECEIVING PARTY DATA																																					
Name:	Novartis Vaccines and Diagnostics, Inc.																																				
Street Address:	4560 Horton Street																																				
Internal Address:	Mail Stop X-100B																																				
City:	Emeryville																																				
State/Country:	CALIFORNIA																																				
Postal Code:	94608																																				
PROPERTY NUMBERS Total: 1																																					
Property Type	Number																																				
Application Number:	13453202																																				

PATENT

CORRESPONDENCE DATA

Fax Number: (617)871-3392
Phone: (510) 923-2707
Email: lisa.nash@novartis.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.

Correspondent Name: Novartis Institutes for BioMedical Res
Address Line 1: 220 Massachusetts Avenue, 2nd Floor
Address Line 2: NIBR Patents
Address Line 4: Cambridge, MASSACHUSETTS 02139

ATTORNEY DOCKET NUMBER: PAT052017-US-CNT

NAME OF SUBMITTER: Lisa Nash

Total Attachments: 24

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ASSIGNMENT

WHEREAS, We, James C. Sutton, Marion Wiesmann, Weibo Wang, Mika K. Lindvall, Jiong Lan, Savithri Ramurthy, Anu Sharma, Elizabeth J. Mieuli, Liana M. Klivansky, William P. Lenahan, Susan Kaufman, Hong Yang, Simon C. Ng, Keith Pfister, Allan Wagman, Victoria Sung, and Martin Sendzik, hereinafter referred to as *ASSIGNORS*, have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: 6-O-SUBSTITUTED BENZAZOLE AND BENZOTHIAZOLE
COMPOUNDS AND METHODS OF INHIBITING CSF-1R SIGNALING

Date(s) of Execution: May 10, 2007, May 15, 2007, May 16, 2007, Filing Date: April 18, 2007
May 30, 2007, June 6, 2007, June 20, 2007, and
September 5, 2007

Serial No: 11/737,069



WHEREAS, NOVARTIS VACCINES AND DIAGNOSTICS, INC., 4560 Horton Street, Emeryville, California 94608-2916, a corporation of the State of Delaware, hereinafter referred to as *ASSIGNEE*, is desirous of acquiring the entire right, title and interest in the above invention and application and in any Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to *ASSIGNORS* by *ASSIGNEE*, receipt of which is hereby acknowledged, *ASSIGNORS* have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said *ASSIGNEE*, and *ASSIGNEE'S* successors and assigns, all right, title and interest in and to the said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions (including conversions claiming priority under 35 U.S.C. §119(c)), reissues, prolongations or extensions thereof, the said interest to be held and enjoyed by said *ASSIGNEE* as fully and exclusively as it would have been held and enjoyed by said *ASSIGNORS* had this assignment and transfer not been made, to the full end and term of any Letters Patent.

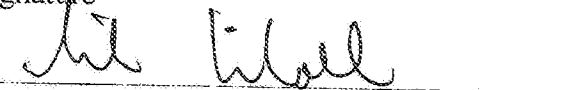

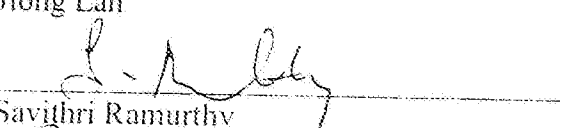
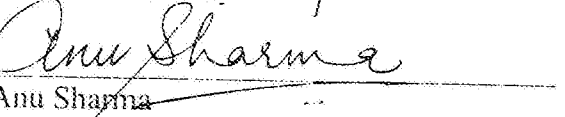
ASSIGNORS also agree that the U.S. application number may be entered above by *ASSIGNEE* or its agents upon designation of the application number by the U.S. Patent and Trademark Office.

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IN TESTIMONY WHEREOF, ASSIGNORS have hereunto signed their names to this assignment on the dates indicated below.

DATE <u>05/16/07</u>	 James C. Sutton
DATE <u>05/16/2007</u>	 Marion Wiesmann
DATE _____	_____ Weibo Wang

Witness Signature

DATE <u>06/06/2007</u>	 Mika K. Lindvall
DATE <u>06/06/2007</u>	 Jiong Lan
DATE <u>6/20/07</u>	 Savithri Ramurthy
DATE <u>06-06-2007.</u>	 Anu Sharma

DATE _____

Elizabeth J. Miculi

Witness Signature

DATE _____

Liana M. Klivansky

Witness Signature

DATE 05/10/2007

William P. Lenahan
William P. Lenahan

DATE 5/30/2007

Susan Kaufman
Susan Kaufman

DATE _____

Hong Yang

Witness Signature

DATE 5-15-2007

Simon C. Ng
Simon C. Ng

DATE 5-10-07

Keith Pfister
Keith Pfister

DATE _____

Allan Wagman

Witness Signature

DATE 9-5-07

Victoria Sung
Victoria Sung

DATE 5-10-07

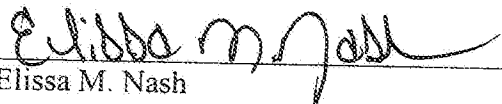
Martin Sendzik
Martin Sendzik

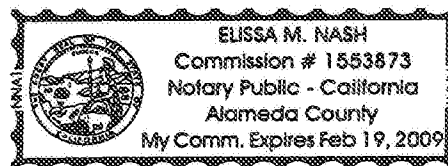
State of California

County of Alameda

On June 20, 2007 before me, Elissa M. Nash, personally appeared Savithri Ramurthy, personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.


Elissa M. Nash

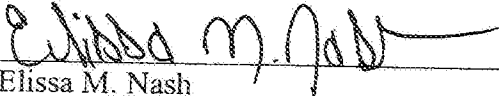


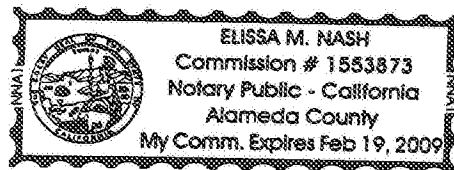
State of California

County of Alameda

On June 6, 2007 before me, Elissa M. Nash, personally appeared Mika K. Lindvall, Jiong Lan, and Anu Sharma, personally known to me to be the persons whose names are subscribed to the within instrument and acknowledged to me that they executed the same in their authorized capacities, and that by their signatures on the instrument the persons, or entity upon behalf of which the persons acted, executed the instrument.

WITNESS my hand and official seal.


Elissa M. Nash

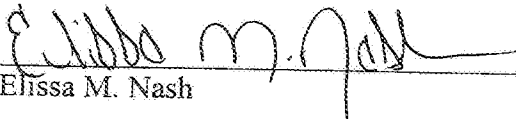


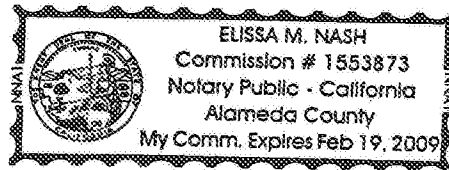
State of California

County of Alameda

On May 15, 2007 before me, Elissa M. Nash, personally appeared Simon Ng personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.


Elissa M. Nash

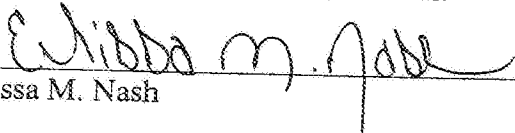


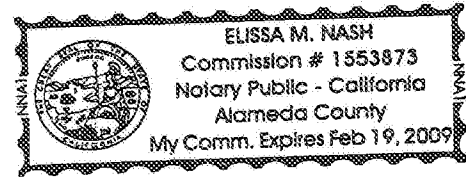
State of California

County of Alameda

On May 16, 2007 before me, Elissa M. Nash, personally appeared James C. Sutton and Marion Wiesmann, personally known to me to be the persons whose names are subscribed to the within instrument and acknowledged to me that they executed the same in their authorized capacities, and that by their signatures on the instrument the persons, or entity upon behalf of which the persons acted, executed the instrument.

WITNESS my hand and official seal.


Elissa M. Nash

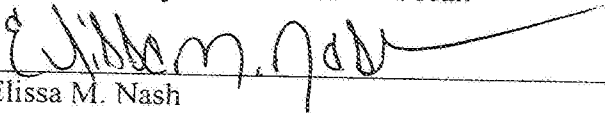


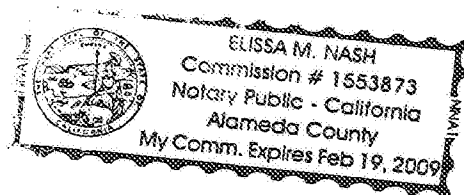
State of California

County of Alameda

On May 30, 2007 before me, Elissa M. Nash, personally appeared Susan Kaufman personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.


Elissa M. Nash

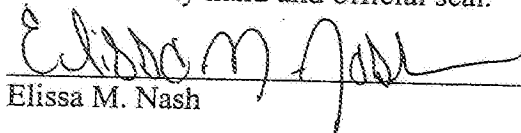


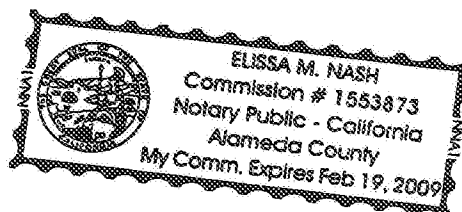
State of California

County of Alameda

On September 5, 2007 before me, Elissa M. Nash, personally appeared Victoria Sung, personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.


Elissa M. Nash



ASSIGNMENT

WHEREAS, We, James C. Sutton, Marion Wiesmann, Weibo Wang, Mika K. Lindvall, Jiong Lan, Savithri Ramurthy, Anu Sharma, Elizabeth J. Miculi, Liana M. Klivansky, William P. Lenahan, Susan Kaufman, Hong Yang, Simon C. Ng, Keith Pfister, Allan Wagman, Victoria Sung, and Martin Sendzik, hereinafter referred to as *ASSIGNORS*, have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: 6-O-SUBSTITUTED BENZAZOLE AND BENZOTHIAZOLE
COMPOUNDS AND METHODS OF INHIBITING CSF-1R SIGNALING

Date(s) of Execution: June 9, 2007

Filing Date: April 18, 2007

Serial No: 11/737,069

WHEREAS, NOVARTIS VACCINES AND DIAGNOSTICS, INC., 4560 Horton Street, Emeryville, California 94608-2916, a corporation of the State of Delaware, hereinafter referred to as *ASSIGNEE*, is desirous of acquiring the entire right, title and interest in the above invention and application and in any Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to *ASSIGNORS* by *ASSIGNEE*, receipt of which is hereby acknowledged, *ASSIGNORS* have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said *ASSIGNEE*, and *ASSIGNEE'S* successors and assigns, all right, title and interest in and to the said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions (including conversions claiming priority under 35 U.S.C. §119(e)), reissues, prolongations or extensions thereof, the said interest to be held and enjoyed by said *ASSIGNEE* as fully and exclusively as it would have been held and enjoyed by said *ASSIGNORS* had this assignment and transfer not been made, to the full end and term of any Letters Patent.

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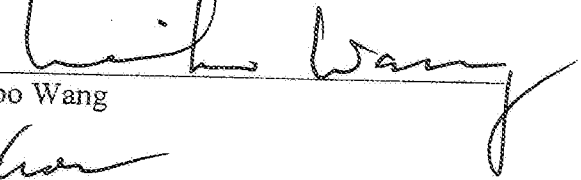
DATE _____

James C. Sutton

DATE _____

Marion Wiesmann

DATE 6/9/07



Weibo Wang



Witness Signature

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Mika K. Lindvall

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Jiong Lan

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Savithri Ramurthy

DATE _____

Anu Sharma

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Elizabeth J. Mieuli

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Liana M. Klivansky

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William P. Lenahan

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Susan Kaufman

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Hong Yang

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Victoria Sung

DATE _____

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Title of Invention: 6-O-SUBSTITUTED BENZAZOLE AND BENZOTHIAZOLE
COMPOUNDS AND METHODS OF INHIBITING CSF-1R SIGNALING

Date(s) of Execution: June 8, 2007 Filing Date: April 18, 2007

Serial No: 11/737,069

WHEREAS, NOVARTIS VACCINES AND DIAGNOSTICS, INC., 4560 Horton Street, Emeryville, California 94608-2916, a corporation of the State of Delaware, hereinafter referred to as *ASSIGNEE*, is desirous of acquiring the entire right, title and interest in the above invention and application and in any Letters Patent which may be granted on the same;

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Susan Kaufman

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Hong Yang

Witness Signature

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Simon C. Ng

DATE _____

Keith Pfister

DATE 6/8/07



Allan Wagman



Erica A. Kraepohl
Witness Signature

DATE _____

Victoria Sung

DATE _____

Martin Sendzik

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Title of Invention: 6-O-SUBSTITUTED BENZAZOLE AND BENZOTHIAZOLE
COMPOUNDS AND METHODS OF INHIBITING CSF-1R SIGNALING

Date(s) of Execution: June 6, 2007 Filing Date: April 18, 2007

Serial No: 11/737,069

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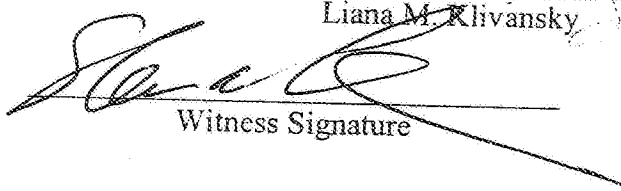
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Elizabeth J. Mieuli

Witness Signature

DATE 6/6/07


Liana M. Klivansky


Witness Signature

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William P. Lenahan

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COMPOUNDS AND METHODS OF INHIBITING CSF-1R SIGNALING

Date(s) of Execution: June 18, 2007 Filing Date: April 18, 2007

Serial No: 11/737,069

WHEREAS, NOVARTIS VACCINES AND DIAGNOSTICS, INC., 4560 Horton Street, Emeryville, California 94608-2916, a corporation of the State of Delaware, hereinafter referred to as *ASSIGNEE*, is desirous of acquiring the entire right, title and interest in the above invention and application and in any Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to *ASSIGNORS* by *ASSIGNEE*, receipt of which is hereby acknowledged, *ASSIGNORS* have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said *ASSIGNEE*, and *ASSIGNEE'S* successors and assigns, all right, title and interest in and to the said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions (including conversions claiming priority under 35 U.S.C. §119(c)), reissues, prolongations or extensions thereof, the said interest to be held and enjoyed by said *ASSIGNEE* as fully and exclusively as it would have been held and enjoyed by said *ASSIGNORS* had this assignment and transfer not been made, to the full end and term of any Letters Patent.

ASSIGNORS also agree that the U.S. application number may be entered above by *ASSIGNEE* or its agents upon designation of the application number by the U.S. Patent and Trademark Office.

ASSIGNORS further agree that they will, without charge to said *ASSIGNEE*, but at *ASSIGNEE'S* expense, cooperate with *ASSIGNEE* in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as *ASSIGNEE* lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said *ASSIGNEE*, or *ASSIGNEE'S* successors and assigns.

IN TESTIMONY WHEREOF, ASSIGNORS have hereunto signed their names to this assignment on the dates indicated below.

DATE _____

James C. Sutton

DATE _____

Marion Wiesmann

DATE _____

Weibo Wang

Witness Signature

DATE _____

Mika K. Lindvall

DATE _____

Jiong Lan

DATE _____

Savithri Ramurthy

DATE _____

Anu Sharma

DATE _____

Elizabeth J. Mieuli

Witness Signature

DATE _____

Liana M. Klivansky

Witness Signature

DATE _____

William P. Lenahan

DATE _____

Susan Kaufman

DATE 01/18/07



Hong Yang


Witness Signature

DATE _____

Simon C. Ng

DATE _____

Keith Pfister

DATE _____

Allan Wagman

Witness Signature

DATE _____

Victoria Sung

DATE _____

Martin Sendzik

ASSIGNMENT

WHEREAS, We, James C. Sutton, Marion Wiesmann, Weibo Wang, Mika K. Lindvall, Jiong Lan, Savithri Ramurthy, Anu Sharma, Elizabeth J. Mieuli, Liana M. Klivansky, William P. Lenahan, Susan Kaufman, Hong Yang, Simon C. Ng, Keith Pfister, Allan Wagman, Victoria Sung, and Martin Sendzik, hereinafter referred to as *ASSIGNORS*, have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: 6-O-SUBSTITUTED BENZAZOLE AND BENZOTHAZOLE
COMPOUNDS AND METHODS OF INHIBITING CSF-1R SIGNALING

Date(s) of Execution: August 24, 2007 Filing Date: April 18, 2007

Serial No: 11/737,069

WHEREAS, NOVARTIS VACCINES AND DIAGNOSTICS, INC., 4560 Horton Street, Emeryville, California 94608-2916, a corporation of the State of Delaware, hereinafter referred to as *ASSIGNEE*, is desirous of acquiring the entire right, title and interest in the above invention and application and in any Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to *ASSIGNORS* by *ASSIGNEE*, receipt of which is hereby acknowledged, *ASSIGNORS* have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said *ASSIGNEE*, and *ASSIGNEE'S* successors and assigns, all right, title and interest in and to the said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions (including conversions claiming priority under 35 U.S.C. §119(e)), reissues, prolongations or extensions thereof, the said interest to be held and enjoyed by said *ASSIGNEE* as fully and exclusively as it would have been held and enjoyed by said *ASSIGNORS* had this assignment and transfer not been made, to the full end and term of any Letters Patent.

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IN TESTIMONY WHEREOF, ASSIGNORS have hereunto signed their names to this assignment on the dates indicated below.

DATE _____

James C. Sutton

DATE _____

Marion Wiesmann

DATE _____

Weibo Wang

Witness Signature

DATE _____

Mika K. Lindvall

DATE _____

Jiong Lan

DATE _____

Savithri Ramurthy

DATE _____

Anu Sharma

DATE August 24, 2007

Elizabeth J. Mieuli
Elizabeth J. Mieuli

Erik S. Beuss
Witness Signature

DATE _____

Liana M. Klivansky

Witness Signature

DATE _____

William P. Lenahan

DATE _____

Susan Kaufman

DATE _____

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DATE _____

Simon C. Ng

DATE _____

Keith Pfister

DATE _____

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Victoria Sung

DATE _____

Martin Sendzik