503850333 06/01/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3896982

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHRISTOPHER STEPHEN LEE	07/20/2015
MICHAEL WILLIAM MONARK	07/14/2015
KAREN LYNN THOMAS	07/23/2015
WESLEY EDSEL MURPHREE	07/22/2015
KRISTIN LEIGH BACA	07/22/2015

RECEIVING PARTY DATA

Name:	CGI TECHNOLOGIES AND SOLUTIONS INC.
Street Address:	11325 RANDOM HILLS ROAD
City:	FAIRFAX
State/Country:	VIRGINIA
Postal Code:	22030

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14719137

CORRESPONDENCE DATA

Fax Number:

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.

Phone: 202-756-8000

Email: ipdocketmwe@mwe.com, gdamianoszafran@mwe.com

Correspondent Name: MCDERMOTT WILL & EMERY LLP Address Line 1: 500 NORTH CAPITOL STREET WASHINGTON, D.C. 20001

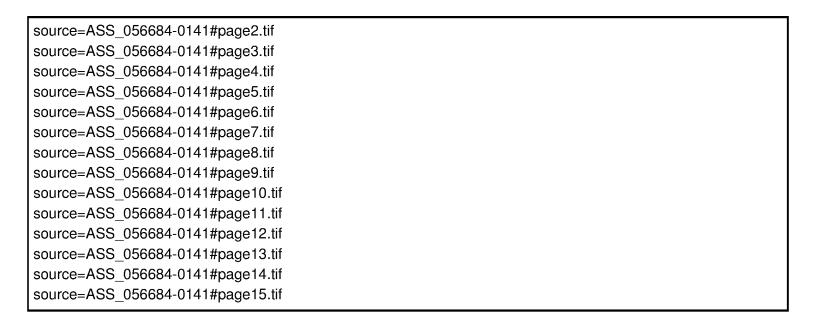
ATTORNEY DOCKET NUMBER:	056684-0141
NAME OF SUBMITTER:	TIMOTHEE B. DOUTRIAUX
SIGNATURE:	/Timothee B. Doutriaux/
DATE SIGNED:	06/01/2016

Total Attachments: 15

source=ASS_056684-0141#page1.tif

PATENT REEL: 038853 FRAME: 0001

503850333



PATENT REEL: 038853 FRAME: 0002

As a below named inventor, I hereby declare that:

which application is:

I believe I am the original or an original joint inventor of a claimed invention in the application for which a patent is sought on the invention entitled:

AUTOMATED TESTING OF AN APPLICATION SYSTEM

	allacocd, or
A	United States application number or PCT international application numberfiled on
The	above-identified application was made or authorized to be made by me.
exec reque Cust	e event that the filing date and/or application number are not entered above at the time ute this document, and if such information is deemed necessary, I hereby authorize and est the registered practitioners of McDermott Will & Emery LLP, associated with the omer Number 20277, to insert above the filing date and/or application number of the cation.
I her unde	eby acknowledge that any willful false statement made in this declaration is punishable 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Page 1 of 3

REEL: 038853 FRAME: 0003

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I hereby assign to

CGI TECHNOLOGIES AND SOLUTIONS INC.

having an address at 11325 Random Hills Road, Fairfax, VA, 22030, (hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 USC §100, in the invention described in the application identified in this document.

I hereby confirm any prior assignment to Assignee, and to the extent that I have not already done so, agree to assign, and hereby do, sell, assign and transfer unto Assignce and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by the undersigned had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom. and the copyright rights;

I hereby covenant and agree to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth:

I hereby covenant that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment.

Page 2 of 3

REEL: 038853 FRAME: 0004

Legal name of first inscator	
Christopher Stephen LEE	
First inventor's augmanary	L Date Date Date Date Date Date Date Date
	7/20/15
Logal mater of encountriconnect, if any	
Michael William MONARK	
Accord (avonur's signature	Date
Legal name of third inventor, if any	
Karen Lynn THOMAS	
Third inventor's signature	Date
Legal name of fourth inventor, if any	
Wesley Edsel MURPHREE	
Fourth inventor's signature	Date
Legal name of fifth investor; if any	
Kristin Leigh BACA	
Fifth inventor's signature	Date

PATENT REEL: 038853 FRAME: 0005

As a below named inventor, I hereby declare that:

I believe I am the original or an original joint inventor of a claimed invention in the application for which a patent is sought on the invention entitled:

AUTOMATED TESTING OF AN APPLICATION SYSTEM

which	application is:
	attached, or
	United States application number or PCT international application number 19719137 filed on 1704 21, 2015
The al	pove-identified application was made or authorized to be made by me.
	event that the filing date and/or application number are not entered above at the time I te this document, and if such information is deemed necessary. I hereby authorize and

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

request the registered practitioners of McDermott Will & Emery LLP, associated with the Customer Number 20277, to insert above the filing date and/or application number of the

Page 1 of 3

 $DM_{\rm e}US 61485943 \pm 056084 \, 0641$

application.

<u>ASSIGNMENT</u>

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I hereby assign to

CGI TECHNOLOGIES AND SOLUTIONS INC.

having an address at 11325 Random Hills Road, Fairfax, VA, 22030, (hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 USC §100, in the invention described in the application identified in this document.

I hereby confirm any prior assignment to Assignee, and to the extent that I have not already done so, agree to assign, and hereby do, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations. continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by the undersigned had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

I hereby covenant and agree to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

I hereby covenant that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment.

Page 2 of 3

DM US 61485943-1 056684 0141

Logal name of first inventor	
Christopher Stephen LEE	$y \in \mathbb{R}$ where $y \in \mathbb{R}$ is the supposition of the state of the supposition of the su
First inventor's signature	Date
	N-Man account
Logal name of second inventor, if any	
Michael William MONARK	or solver and account in material or the community of declaration of contribution for the contribution of
Muchael Willia Monach	July 14, 2015
	не достоя на принципалния и принципалния в принцип
Legal name of third inventor, if any	и маке и брин и бит на бит на виде оборно оборно подоможения противностью и противностью подоможения подом
Karen Lynn THOMAS	
Third inventor's signature	Date
Legal name of booth inventor, if any	
Wesley Edsel MURPHREE	
Fourth inventor's aguante	Date
	1
	Hard the control of t
Legal name of fifth inventor, if any	
Kristin Leigh BACA	
Fifth inventor's signature	Date
	vanerozaz

As a below named inventor, I hereby declare that:

I believe I am the original or an original joint inventor of a claimed invention in the application for which a patent is sought on the invention entitled:

AUTOMATED TESTING OF AN APPLICATION SYSTEM

which	application is:
	attached, or
\boxtimes	United States application number or PCT international application number filed on
The at	pove-identified application was made or authorized to be made by me.
execut reques	event that the filing date and/or application number are not entered above at the time I this document, and if such information is deemed necessary, I hereby authorize and the registered practitioners of McDermott Will & Emery LLP, associated with the ner Number 20277, to insert above the filing date and/or application number of the ation.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Page 1 of 3

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I hereby assign to

CGI TECHNOLOGIES AND SOLUTIONS INC.

having an address at 11325 Random Hills Road, Fairfax, VA, 22030, (hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 USC §100, in the invention described in the application identified in this document.

I hereby confirm any prior assignment to Assignce, and to the extent that I have not already done so, agree to assign, and hereby do, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by the undersigned had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

I hereby covenant and agree to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

I hereby covenant that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment.

Page 2 of 3

Legal name of first inventor	
Christopher Stephen LEE	
First inventor's signature	Date
Legal name of second inventor, if any	
Michael William MONARK	
Second inventor's signature	Date
Legal name of third inventor, if any	
Karen Lynn THOMAS	
Third inventor's signature	Date
	1
Howan Thomas	7/23/15
<u> </u>	1
Legal name of fourth inventor, if any	
Wesley Edsel MURPHREE	
Fourth inventor's signature	Date
	İ
Legal name of fifth inventor, if any	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Kristin Leigh BACA	
Fifth inventor's signature	Date
	L. Cas Ac

As a below named inventor, I hereby declare that:

which application is:

I believe I am the original or an original joint inventor of a claimed invention in the application for which a patent is sought on the invention entitled:

AUTOMATED TESTING OF AN APPLICATION SYSTEM

	attached, or
\boxtimes	United States application number or PCT international application number filed on
The at	pove-identified application was made or authorized to be made by me.
execut reques	event that the filing date and/or application number are not entered above at the time I this document, and if such information is deemed necessary, I hereby authorize and it the registered practitioners of McDermott Will & Emery LLP, associated with the mer Number 20277, to insert above the filing date and/or application number of the ation.
	by acknowledge that any willful false statement made in this declaration is punishable 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Page 1 of 3

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I hereby assign to

CGI TECHNOLOGIES AND SOLUTIONS INC.

having an address at 11325 Random Hills Road, Fairfax, VA, 22030, (hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 USC §100, in the invention described in the application identified in this document.

I hereby confirm any prior assignment to Assignee, and to the extent that I have not already done so, agree to assign, and hereby do, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by the undersigned had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

I hereby covenant and agree to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth:

I hereby covenant that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment.

Page 2 of 3

Legal name of first inventor				
Christopher Stephen LEE				
First inventor's signature	Date			
Legal name of second inventor, if any				
Michael William MONARK				
Second inventor's signature	Date			
Legal name of third inventor, if any				
Karen Lynn THOMAS				
Third inventor's signature	Date			
Legal name of fourth inventor, if any				
Wesley Edsel MURPHREE				
Fourth inventor's signature	Date			
The second secon	7/22/15			
AND THE PROPERTY AND TH				
Legal name of fifth inventor, if any				
Kristin Leigh BACA	Date			
Fifth inventor's signature	Date			

As a below named inventor, I hereby declare that:

which application is:

I believe I am the original or an original joint inventor of a claimed invention in the application for which a patent is sought on the invention entitled:

AUTOMATED TESTING OF AN APPLICATION SYSTEM

	attached, or
\boxtimes	United States application number or PCT international application number filed on
The ab	ove-identified application was made or authorized to be made by me.
execut reques	event that the filing date and/or application number are not entered above at the time I e this document, and if such information is deemed necessary, I hereby authorize and the registered practitioners of McDermott Will & Emery LLP, associated with the ner Number 20277, to insert above the filing date and/or application number of the ation.

I hereby acknowledge that any willful false statement made in this declaration is punishable

under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Page 1 of 3

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I hereby assign to

CGI TECHNOLOGIES AND SOLUTIONS INC.

having an address at 11325 Random Hills Road, Fairfax, VA, 22030, (hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 USC §100, in the invention described in the application identified in this document.

I hereby confirm any prior assignment to Assignee, and to the extent that I have not already done so, agree to assign, and hereby do, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by the undersigned had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

I hereby covenant and agree to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth:

I hereby covenant that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment.

Page 2 of 3

Legal name of second inventor, if any Michael William MONARK Second inventor's signature Date Legal name of third inventor, if any Karen Lynn THOMAS Third inventor's signature Date	Legal name of first inventor		
Legal name of second inventor, if any Michael William MONARK Second inventor's signature Date Legal name of third inventor, if any Karen Lynn THOMAS Third inventor's signature Date Legal name of fourth inventor, if any Wesley Edsel MURPHREE Fourth inventor's signature Date			
Michael William MONARK Second inventor's signature Legal name of third inventor, if any Karen Lynn THOMAS Third inventor's signature Date Legal name of fourth inventor, if any Wesley Edsel MURPHREE Fourth inventor's signature Date Legal name of fifth inventor, if any Keistin Leigh RACA	First inventor's signature	Date	
Michael William MONARK Second inventor's signature Legal name of third inventor, if any Karen Lynn THOMAS Third inventor's signature Date Legal name of fourth inventor, if any Wesley Edsel MURPHREE Fourth inventor's signature Date Legal name of fifth inventor, if any Keistin Leigh RACA			
Michael William MONARK Second inventor's signature Legal name of third inventor, if any Karen Lynn THOMAS Third inventor's signature Date Legal name of fourth inventor, if any Wesley Edsel MURPHREE Fourth inventor's signature Date Legal name of fifth inventor, if any Keistin Leigh RACA			
Michael William MONARK Second inventor's signature Legal name of third inventor, if any Karen Lynn THOMAS Third inventor's signature Date Legal name of fourth inventor, if any Wesley Edsel MURPHREE Fourth inventor's signature Date Legal name of fifth inventor, if any Keistin Leigh RACA			
Michael William MONARK Second inventor's signature Legal name of third inventor, if any Karen Lynn THOMAS Third inventor's signature Date Legal name of fourth inventor, if any Wesley Edsel MURPHREE Fourth inventor's signature Date Legal name of fifth inventor, if any Keistin Leigh RACA			
Legal name of third inventor, if any Karen Lynn THOMAS Third inventor's signature Date Date Legal name of fourth inventor, if any Wesley Edsel MURPHREE Fourth inventor's signature Date Legal name of fifth inventor, if any Kristin Leigh BACA	Legal name of second inventor, if any	100-100-100-100-100-100-100-100-100-100	
Legal name of third inventor, if any Karen Lynn THOMAS Third inventor's signature Date Legal name of fourth inventor, if any Wesley Edsel MURPHREE Fourth inventor's signature Date Legal name of fifth inventor, if any Kristin Leigh BACA	Michael William MONARK		
Karen Lynn THOMAS Third inventor's signature Date Legal name of fourth inventor, if any Wesley Edsel MURPHREE Fourth inventor's signature Date Legal name of fifth inventor, if any Keistin Laigh BACA	Second inventor's signature	Date	
Karen Lynn THOMAS Third inventor's signature Date Legal name of fourth inventor, if any Wesley Edsel MURPHREE Fourth inventor's signature Date Legal name of fifth inventor, if any Keistin Laigh BACA			
Karen Lynn THOMAS Third inventor's signature Date Legal name of fourth inventor, if any Wesley Edsel MURPHREE Fourth inventor's signature Date Legal name of fifth inventor, if any Keistin Laigh BACA			
Karen Lynn THOMAS Third inventor's signature Date Legal name of fourth inventor, if any Wesley Edsel MURPHREE Fourth inventor's signature Date Legal name of fifth inventor, if any Keistin Laigh BACA			
Karen Lynn THOMAS Third inventor's signature Date Legal name of fourth inventor, if any Wesley Edsel MURPHREE Fourth inventor's signature Date Legal name of fifth inventor, if any Keistin Laigh BACA			
Third inventor's signature Date	Legal name of third inventor, if any		
Third inventor's signature Date	Karen Lvnn THOMAS		
Wesley Edsel MURPHREE Fourth inventor's signature Date Legal name of fifth inventor, if any Keistin Laigh BACA	Third inventor's signature	Date	
Wesley Edsel MURPHREE Fourth inventor's signature Date Legal name of fifth inventor, if any Keistin Laigh BACA			
Wesley Edsel MURPHREE Fourth inventor's signature Date Legal name of fifth inventor, if any Keistin Laigh BACA			
Wesley Edsel MURPHREE Fourth inventor's signature Date Legal name of fifth inventor, if any Keistin Laigh BACA		**************************************	
Wesley Edsel MURPHREE Fourth inventor's signature Date Legal name of fifth inventor, if any Keistin Laigh BACA			
Legal name of fifth inventor, if any Keistie Lajach BACA	Legal name of fourth inventor, if any		
Legal name of lifth inventor, if any Keistin I airth BACA			
Kristin Laigh RACA	Fourth inventor's signature	Date	
Kristin Laigh RACA			
Fifth inventor's signature Kuistur Suim Maa 1/22/2015			
Kuisten Sain Jaca 1/22/2015	Kristin Leigh BACA	i The to	
KULETUN JULA 1/242015	Fifth inventor's signature		
	KYWSTUN JUNN I JACA	1/24/2015	

Page 3 of 3