502303695 04/09/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
William B TROUTMAN	12/02/2009
William B TROUTMAN II	12/02/2009
lan KOVACEVICH	07/09/2009
Thomas James PHILPOTT	07/09/2009
Christopher HOY	07/10/2009
Lawrence OBER	07/15/2010

RECEIVING PARTY DATA

Name:	INNOVIA INTELLECTUAL PROPERTIES, LLC
Street Address:	PO BOX 2526
City:	Charlotte
State/Country:	NORTH CAROLINA
Postal Code:	28106

PROPERTY NUMBERS Total: 5

Property Type	Number
Application Number:	12957331
Patent Number:	8336803
Patent Number:	8231075
Patent Number:	8231076
Application Number:	12861804

CORRESPONDENCE DATA

Fax Number: 877-248-51

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 877-248-5100
Email: uspto@ti-law.com

Correspondent Name: TILLMAN WRIGHT, PLLC

PATENT

REEL: 030177 FRAME: 0529

Address Line 1: PO BOX 49309 Address Line 4: CHARLOTTE,	9 NORTH CAROLINA 28277-0076
ATTORNEY DOCKET NUMBER:	1123.000 INNOVIA IP V2
NAME OF SUBMITTER:	Chad D. Tillman
Signature:	/Chad D. Tillman/
Date:	04/09/2013
Total Attachments: 26 source=assignment#page1.tif source=assignment#page3.tif source=assignment#page4.tif source=assignment#page5.tif source=assignment#page6.tif source=assignment#page8.tif source=assignment#page8.tif source=assignment#page9.tif source=assignment#page10.tif source=assignment#page11.tif source=assignment#page12.tif source=assignment#page13.tif source=assignment#page15.tif source=assignment#page15.tif source=assignment#page16.tif source=assignment-supp#page1.tif source=assignment-supp#page3.tif source=assignment-supp#page4.tif source=assignment-supp#page4.tif source=assignment-supp#page5.tif source=assignment-supp#page6.tif source=assignment-supp#page6.tif source=assignment-supp#page8.tif source=assignment-supp#page8.tif source=assignment-supp#page9.tif	

PATENT REEL: 030177 FRAME: 0530

WHEREAS,

Christopher HOY 1711 Harrill Street Charlotte, NC 28205

(each hereinafter an "Assignor") has or may have invented certain new and useful improvements and/or designs (each hereinafter an "Invention"), for a full description of which reference is here made to the following one or more patent properties:

Patent Application No. 61/184,789
Attorney Docket No. II08.002
Titled: "Automatic Paper Towel Dispenser"
Filed on: June 6, 2009; and

Patent Application No. 61/266, 169 (to be completed by Assignor when filed)
Attorney Docket No. II08.003
Titled: "Automatic Paper Towel Dispenser"
Filed on: December 3, 2009 (to be completed by Assignor when filed); and

(hereinafter "Patent Properties") either filed, or to be filed and for which Assignor hereby authorizes and requests Assignee to complete any blanks specifying the patent or application number and filing date (but Assignee's failure to do so shall have no bearing whatsoever upon the validity or legal effect of this Assignment);

WHEREAS,

INNOVIA, LLC 2318 Crown Centre Drive Charlotte, NC 28227

(hereinafter "Assignee") is desirous of acquiring all rights, title, and interests in, to, and under the Invention and the Patent Properties, and in, to, and under any and all patents that have been or may be obtained for the Invention, together with all rights corresponding thereto;

- □ The Inventions;
- Any and all applications for patent for the Inventions that may be or have been filed in any and all countries, including the Patent Properties;
- Any and all patents that may be or have been obtained for the Inventions in any and all countries;

- Any reissue, reexamination, extension, renewal, substitution, conversion, confirmation, division, continuation, nonprovisional, provisional, continuation-in-part and the like of any of the foregoing;
- Any application claiming priority to any of the foregoing; and
- Any past or present right or cause of action arising with respect to any of the foregoing, including the right to sue for patent infringement,

FURTHERMORE,

Assignor hereby acknowledges that any and all Invention Rights related to any Invention were at least under obligations of assignment to the same entity prior to conception of such Invention; that any and all Invention Rights related to any Invention already may have been assigned to Assignee; and that this "Assignment of Invention Rights" is being duly executed for at least the purposes of public recordation with the USPTO of all of the rights, title, and interests in the Invention Rights in favor of Assignee.

Assignor hereby covenants and agrees, and binds any and all heirs, administrators, legal representatives, nominees, and assigns, to assist and cooperate with Assignee, at Assignee's expense, in the preparation and prosecution of any application included within the Invention Rights and in the prosecution or defense of any interference, opposition, or other proceeding that may arise in connection with any application or patent included within the Invention Rights and, further, to execute and deliver to Assignee any and all additional petitions, oaths, assignments, or other papers or instruments that may be requested by Assignee in connection herewith.

Assignor hereby authorizes and empowers Assignee to invoke and claim for any application or patent included within the Invention Rights the benefit of any rights to which Assignor might be entitled under international law or under the laws of any particular country, and to invoke and claim such rights without further written or oral authorization from Assignor.

Assignor hereby consents and agrees that a copy of this Assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file, or like document that may be required in any particular country for any purpose and, more particularly, in proof of the right of Assignee to claim the aforesaid benefit of the right of priority and the right to file for patent.

Assignor covenants and agrees that this Assignment and all the terms thereof shall inure to the benefit of the successors, assigns, legal representatives, and nominees of Assignee, without further written or oral authorization from Assignor.

This the 10 day of July	L007.
Assignor Christopher HOY	(Signature)
Witness #1 Signature	Witness #2 Signature
Tions J. 石山のT Witness #1 Name (print)	Kevin DahlqviSt Witness #2 Name (print)
HOT CLAIG AVE. Witness #1 Address Line 1	700 Fugate Av. Witness #2 Address Line I
Witness #1 Address Line 2	Charlotte, NC 28205 Witness #2 Address Line 2
	TE FOR ACKNOWLEDGEMENT
State of North Caroli	$\hat{\mathbf{Q}}$
County of MOCKION DUI	<u>(</u>
United States of America	
On this day of voluntarily signed the foregoing document for	ppeared before me and acknowledged to me that he or she the purpose stated therein and in the capacity indicated:
Christopher Hoy	_(person appearing before notary)
Notary Signature W	
Printed Name: AMV EIIC)

Arny Ellis Notary Public Mecklenburg County North Carolina My Commission Expires 4/22/2014

My Commission Expires: 4 221

(Notary Seal)

Assignee hereby accepts the assignment of the	e Invention Rights as set forth above.
This theday of,	.
INNOVIA, LLC	
By:	(Signature)
	(Printed Name)
	(Representative Title)
Witness #1 Signature	Witness #2 Signature
Witness #1 Name (print)	Witness #2 Name (print)
Witness #1 Address Line 1	Witness #2 Address Line 1
Witness #1 Address Line 2	Witness #2 Address Line 2
NOTARY CERTIFIC	ATE FOR ACKNOWLEDGEMENT
State of)
County of)
United States of America	
	appeared before me and acknowledged to me that he or she r the purpose stated therein and in the capacity indicated:
	(person appearing before notary)
Notary Signature:	
Printed Name:	
My Commission Expires:	
(Notary Seal)	

WHEREAS,

Ian KOVACEVICH 235 Meadowbrook Road Charlotte, NC 282II

(each hereinafter an "Assignor") has or may have invented certain new and useful improvements and/or designs (each hereinafter an "Invention"), for a full description of which reference is here made to the following one or more patent properties:

Patent Application No. 61/184,789
Attorney Docket No. II08.002
Titled: "Automatic Paper Towel Dispenser"
Filed on: June 6, 2009; and

Patent Application No. 61/266, 169 (to be completed by Assignor when filed)
Attorney Docket No. II08.003
Titled: "Automatic Paper Towel Dispenser"
Filed on: December 3, 2009 (to be completed by Assignor when filed); and

(hereinafter "Patent Properties") either filed, or to be filed and for which Assignor hereby authorizes and requests Assignee to complete any blanks specifying the patent or application number and filing date (but Assignee's failure to do so shall have no bearing whatsoever upon the validity or legal effect of this Assignment);

WHEREAS,

INNOVIA, LLC 2318 Crown Centre Drive Charlotte, NC 28227

(hereinafter "Assignee") is desirous of acquiring all rights, title, and interests in, to, and under the Invention and the Patent Properties, and in, to, and under any and all patents that have been or may be obtained for the Invention, together with all rights corresponding thereto;

- □ The Inventions;
- Any and all applications for patent for the Inventions that may be or have been filed in any and all countries, including the Patent Properties;
- Any and all patents that may be or have been obtained for the Inventions in any and all countries;

- Any reissue, reexamination, extension, renewal, substitution, conversion, confirmation, division, continuation, nonprovisional, provisional, continuation-in-part and the like of any of the foregoing;
- Any application claiming priority to any of the foregoing; and
- Any past or present right or cause of action arising with respect to any of the foregoing, including the right to sue for patent infringement,

FURTHERMORE,

Assignor hereby acknowledges that any and all Invention Rights related to any Invention were at least under obligations of assignment to the same entity prior to conception of such Invention; that any and all Invention Rights related to any Invention already may have been assigned to Assignee; and that this "Assignment of Invention Rights" is being duly executed for at least the purposes of public recordation with the USPTO of all of the rights, title, and interests in the Invention Rights in favor of Assignee.

Assignor hereby covenants and agrees, and binds any and all heirs, administrators, legal representatives, nominees, and assigns, to assist and cooperate with Assignee, at Assignee's expense, in the preparation and prosecution of any application included within the Invention Rights and in the prosecution or defense of any interference, opposition, or other proceeding that may arise in connection with any application or patent included within the Invention Rights and, further, to execute and deliver to Assignee any and all additional petitions, oaths, assignments, or other papers or instruments that may be requested by Assignee in connection herewith.

Assignor hereby authorizes and empowers Assignee to invoke and claim for any application or patent included within the Invention Rights the benefit of any rights to which Assignor might be entitled under international law or under the laws of any particular country, and to invoke and claim such rights without further written or oral authorization from Assignor.

Assignor hereby consents and agrees that a copy of this Assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file, or like document that may be required in any particular country for any purpose and, more particularly, in proof of the right of Assignee to claim the aforesaid benefit of the right of priority and the right to file for patent.

Assignor covenants and agrees that this Assignment and all the terms thereof shall inure to the benefit of the successors, assigns, legal representatives, and nominees of Assignee, without further written or oral authorization from Assignor.

This the 4th_day of 100°)
Assigna (Sgrature)
Vitness #1 Signature Vitness #2 Signature
Unit Prente JEH Beautiful Witness #1 Name (print) Witness #2 Name (print)
1903 Rockucreek LN 1925 King Endee De Witness #1 Address Line 1 Witness #2 Address Line 1
Monroe NC 28112 Chele He NE 38273 Witness #1 Address Line 2 Witness #2 Address Line 2
NOTARY CERTIFICATE FOR ACKNOW LEDGEMENT
gate of North Carolina
County of MCCKICh bvig
United States of America
On this qth day of UVY 2009
I certify that the following person personally appeared before me and acknowledged to me that he or she voluntarily signed the foregoing document for the purpose stated therein and in the capacity indicated:
100 F0V0CtViCh (pason appearing before not ary)
Notary Sgnature Charles State
Printed Name: AVMY EUO
My Commission Expires: 4/02/14
(Notary Seel) Army Ellis Notary Public Mecklenburg County North Carolina My Commission Expires 4/22/2014

3 of 4

Assignee hereby accepts the assignme	nt of the Invention Rights as set forth above.
This the day of	
INNOVIA, LLC	
Ву:	(Signature)
	(Printed Name)
	(Representative Title)
Witness #1 Signature	Witness #2 Signature
Witness #! Name (print)	Witness #2 Name (print)
Witness #1 Address Line 1	Witness #2 Address Line 1
Witness #1 Address Line 2	Witness #2 Address Line 2
NOTARY CEI	RTIFICATE FOR ACKNOWLEDGEMENT
State of)
County of)
United States of America	
On this day of I certify that the following person per voluntarily signed the foregoing documents	sonally appeared before me and acknowledged to me that he or she nent for the purpose stated therein and in the capacity indicated:
	(person appearing before notary)
Notary Signature:	
Printed Name:	
My Commission Expires:	
(Notary Seal)	

WHEREAS,

Thomas James PHILPOTT 1811 Kensington Dr. Charlotte, NC 28205

(each hereinafter an "Assignor") has or may have invented certain new and useful improvements and/or designs (each hereinafter an "Invention"), for a full description of which reference is here made to the following one or more patent properties:

Patent Application No. 61/184,789 Attorney Docket No. 1108.002 Titled: "Automatic Paper Towel Dispenser" Filed on: June 6, 2009; and

Patent Application No. 61/266, 169 (to be completed by Assignor when filed) Attorney Docket No. II08.003

Titled: "Automatic Paper Towel Dispenser"

Filed on: December 3, 2009 (to be completed by Assignor when filed); and

(hereinafter "Patent Properties") either filed, or to be filed and for which Assignor hereby authorizes and requests Assignee to complete any blanks specifying the patent or application number and filing date (but Assignee's failure to do so shall have no bearing whatsoever upon the validity or legal effect of this Assignment);

WHEREAS,

INNOVIA, LLC 2318 Crown Centre Drive Charlotte, NC 28227

(hereinafter "Assignee") is desirous of acquiring all rights, title, and interests in, to, and under the Invention and the Patent Properties, and in, to, and under any and all patents that have been or may be obtained for the Invention, together with all rights corresponding thereto;

- □ The Inventions;
- Any and all applications for patent for the Inventions that may be or have been filed in any and all countries, including the Patent Properties;
- a Any and all patents that may be or have been obtained for the Inventions in any and all countries;

- Any reissue, reexamination, extension, renewal, substitution, conversion, confirmation, division, continuation, nonprovisional, provisional, continuation-in-part and the like of any of the foregoing;
- Any application claiming priority to any of the foregoing; and
- Any past or present right or cause of action arising with respect to any of the foregoing, including the right to sue for patent infringement,

FURTHERMORE,

Assignor hereby acknowledges that any and all Invention Rights related to any Invention were at least under obligations of assignment to the same entity prior to conception of such Invention; that any and all Invention Rights related to any Invention already may have been assigned to Assignee; and that this "Assignment of Invention Rights" is being duly executed for at least the purposes of public recordation with the USPTO of all of the rights, title, and interests in the Invention Rights in favor of Assignee.

Assignor hereby covenants and agrees, and binds any and all heirs, administrators, legal representatives, nominees, and assigns, to assist and cooperate with Assignee, at Assignee's expense, in the preparation and prosecution of any application included within the Invention Rights and in the prosecution or defense of any interference, opposition, or other proceeding that may arise in connection with any application or patent included within the Invention Rights and, further, to execute and deliver to Assignee any and all additional petitions, oaths, assignments, or other papers or instruments that may be requested by Assignee in connection herewith.

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Assignor covenants and agrees that this Assignment and all the terms thereof shall inure to the benefit of the successors, assigns, legal representatives, and nominees of Assignee, without further written or oral authorization from Assignor.

This the	ofte day of Truy,	227
Assignar	-172	(Signature)
	Thomas James PHILPOTT	
Witness #1	Signature	Witness 2 Signature
<u>Chaiste</u> Witness#1	Name (print)	Kevin Dahlquist Witness #2 Name (print)
<u>1311</u> ∔A Witness ∯A	Address Line 1	700 Fugate Av Witness #2 Address Line 1
<u>Chars</u> Witness #1	arse AC 28205 Address Line 2	<u>Charlotte, NC 28205</u> Witness #2 Address Line 2
	x	TE FOR ACKNOWLEDGEMENT
State of	North Caroli	···· •
County of	Mocklenbur	y
United States	th devot JUN	a009
I certify that	the following person personally a	ppeared before me and acknowledged to me that he or she the purpose stated therein and in the capacity indicated:
Thom	ds Philpott	_(person appearing before notary)
Notary Signa	ature MUSEU	
Printed Nam	« AMY Ellis	
My Commiss	sion Expires: $4/22/14$	
(Notary Seal		
	Amy Ellis Notary Public Mecklenburg County North Carolina	
	My Commission Expires 4/22/20	714 8

Assignee hereby accepts the assignment of the l	Invention Rights as set forth above.
This the,,	·
INNOVIA, LLC	
Ву:	(Signature)
	(Printed Name)
	(Representative Title)
Witness #1 Signature	Witness #2 Signature
Witness #1 Name (print)	Witness #2 Name (print)
Witness #1 Address Line 1	Witness #2 Address Line 1
Witness #1 Address Line 2	Witness #2 Address Line 2
NOTARY CERTIFICAT	FE FOR ACKNOWLEDGEMENT
State of)
County of)
United States of America	
	opeared before me and acknowledged to me that he or she he purpose stated therein and in the capacity indicated:
	(person appearing before notary)
Notary Signature:	
Printed Name:	
My Commission Expires:	
(Notary Seal)	

WHEREAS,

William B. TROUTMAN 6247 Glynmoor Lakes Charlotte, NC 28277 William B. TROUTMAN, II 17823 Meadow Bottom Road Charlotte, NC 28277

(each hereinafter an "Assignor") has or may have invented certain new and useful improvements and/or designs (each hereinafter an "Invention"), for a full description of which reference is here made to the following one or more patent properties:

Patent Application No. 11/854,193 Attorney Docket No. 1108.001 Titled: "Perforation Sensing Towel Dispenser" Filed on: September 12, 2007;

Patent Application No. 61/184,789 Attorney Docket No. 1108.002 Titled: "Automatic Paper Towel Dispenser" Filed on: June 6, 2009; and

Patent Application No. 61/266, 169 (to be completed)
Attorney Docket No. 1108.003
Titled: "Automatic Paper Towel Dispenser"

Filed on: December 3, 2009 (to be completed); and

(hereinafter "Patent Properties") either filed, or to be filed and for which Assignor hereby authorizes and requests Assignee to complete any blanks specifying the patent or application number and filing date (but Assignee's failure to do so shall have no bearing whatsoever upon the validity or legal effect of this Assignment);

WHEREAS,

INNOVIA, LLC 2318 Crown Centre Drive Charlotte, NC 28227

(hereinafter "Assignee") is desirous of acquiring all rights, title, and interests in, to, and under the Invention and the Patent Properties, and in, to, and under any and all patents that have been or may be obtained for the Invention, together with all rights corresponding thereto;

- □ The Inventions:
- Any and all applications for patent for the Inventions that may be or have been filed in any and all countries, including the Patent Properties;
- Any and all patents that may be or have been obtained for the Inventions in any and all countries:
- ☐ Any reissue, reexamination, extension, renewal, substitution, conversion, confirmation, division, continuation, nonprovisional, provisional, continuation-in-part and the like of any of the foregoing;
- a Any application claiming priority to any of the foregoing; and
- Any past or present right or cause of action arising with respect to any of the foregoing, including the right to sue for patent infringement,

FURTHERMORE,

Assignor hereby acknowledges that any and all Invention Rights related to any Invention were at least under obligations of assignment to the same entity prior to conception of such Invention; that any and all Invention Rights related to any Invention already may have been assigned to Assignee; and that this "Assignment of Invention Rights" is being duly executed for at least the purposes of public recordation with the USPTO of all of the rights, title, and interests in the Invention Rights in favor of Assignee.

Assignor hereby covenants and agrees, and binds any and all heirs, administrators, legal representatives, nominees, and assigns, to assist and cooperate with Assignee, at Assignee's expense, in the preparation and prosecution of any application included within the Invention Rights and in the prosecution or defense of any interference, opposition, or other proceeding that may arise in connection with any application or patent included within the Invention Rights and, further, to execute and deliver to Assignee any and all additional petitions, oaths, assignments, or other papers or instruments that may be requested by Assignee in connection herewith.

Assignor hereby authorizes and empowers Assignee to invoke and claim for any application or patent included within the Invention Rights the benefit of any rights to which Assignor might be entitled under international law or under the laws of any particular country, and to invoke and claim such rights without further written or oral authorization from Assignor.

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Assignor covenants and agrees that this Assignment and all the terms thereof shall inure to the benefit of the successors, assigns, legal representatives, and nominees of Assignee, without further written or oral authorization from Assignor.

[Signature Pages Follow]

2 of 5

Assignor ////	29 Jan (Signature)
William B. TROU	TMAN
Witness #1 Signature	Witness #2 Signature
Witness #I Name (print)	Witness #2 Name (print)
Witness #1 Address Line 1	Witness #2 Address Line 1
Witness #I Address Line 2	Witness #2 Address Line 2
	ecember 2009 sonally appeared before me and acknowledged to me the ment for the purpose stated therein and in the capacity is
William B. Troutman Novary Signature:	(person appearing before notary) Delayor
Chamanness \	Taylor
Phated Names Edith P.	
Printed Nauries Edith P. MarComprission Expires: 10/36 (Mahar Seal)	2/10

This the 2nd day of	December 2009
Assignor Illian L William B. TRO	S. Jan Mar F (Signature)
Witness #1 Signature	Witness #2 Signature
Witness #I Name (print)	Witness #2 Name (print)
Witness #I Address Line I	Witness #2 Address Line I
Witness #1 Address Line 2	Witness #2 Address Line 2
	CERTIFICATE FOR ACKNOWLEDGEMENT
United States of America	
On this 2nd day of De I certify that the following person voluntarily signed the foregoing do	personally appeared before me and acknowledged to me that he or she cument for the purpose stated therein and in the capacity indicated:
William B. Troutmo	un II (person appearing before notary)
Notary Signature: Link 1	a Sufor
ATARKAR	2. Taylor V
クリョン (Notary Seid)	

INNOVIA, LLC	ber 2009
84 Million B. Tracto	(Signature)
William B. Troutman	
Member Manager	(Representative Title)
Witness #1 Signature	Witness #2 Signature
Witness #1 Name (print)	Witness #2 Name (print)
Witness #1 Address Line 1	Witness #2 Address Line 1
Witness #1 Address Line 2	Witness #2 Address Line 2
County of Union United States of America	
County of <i>Union</i> United States of America On this <u>2nd</u> day of <u>pecemberors</u> I certify that the following person persona	t
County of <i>linion</i> United States of America On this <i>2nd</i> day of <i>pecembe</i> I certify that the following person persona voluntarily signed the foregoing document	
County of <u>Union</u> United States of America On this <u>gnd</u> day of <u>December</u> I certify that the following person personal voluntarily signed the foregoing document <u>William B. Troutman</u>	2009

WHEREAS,

William B. Troutman 6247 Glynmoor Lakes Charlotte, NC 28277

Ian D. Kovacevich 235 Meadowbrook Rd. Charlotte, NC 28211

Christopher Hoy 1711 Harrill St. Charlotte, NC 28205 William B. Troutman, II 17823 Meadow Bottom Rd. Charlotte, NC 28277

Thomas James Philpott 1811 Kensington Dr. Charlotte, NC 28205

Lawrence Ober 14544 Limestone Ln. Pineville, NC 28134

(each hereinafter an "Assignor") has or may have invented one or more new and useful discoveries, creations, improvements and/or designs (each hereinafter an "Invention"), for a full description of which reference is hereby made to the following patent properties:

- U.S. Provisional Patent Application No. 61/184,789, filed 06/06/2009, titled "AUTOMATIC PAPER TOWEL DISPENSER".
- 2. U.S. Provisional Patent Application No. 61/266,169, filed 12/03/2009, titled "AUTOMATIC PAPER TOWEL DISPENSER",
- International Patent Application No. PCT/USI0/37561, filed 06/06/2010, titled "AUTOMATIC PAPER TOWEL DISPENSER APPARATUS", and
- 4. U.S. Nonprovisional Patent Application No. 12/795,384, filed 06/07/2010, titled "AUTOMATIC PAPER TOWEL DISPENSER APPARATUS"

(hereinafter "Patent Properties");

WHEREAS, Innovia Intellectual Properties, LLC (hereinafter "Assignee") is desirous of acquiring all rights, title, and interests in, to, and under each Invention and each of the Patent Properties, and in, to, and under any and all patents that have been or may be obtained for each Invention, together with all rights corresponding thereto:

NOW, THEREFORE, to all whom it may concern, be it known that, for and in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor acknowledges that he or she has agreed to quitclaim, assign, transfer and convey, and does hereby quitclaim, assign, transfer and convey, unto Assignee, effective with respect to each Invention at least as early as the date of conception of each such Invention, any and all right, title, and interest in, to and under:

- Each of the Inventions;
- Any and all applications for patent for the Inventions that may be or have been filed in any and all countries, including the Patent Properties;
- Any and all patents that may be or have been obtained for the inventions in any and all countries;

- Any reissue, reexamination, extension, renewal, substitution, conversion, confirmation, division, continuation, nonprovisional, provisional, continuation-in-part and the like of any of the foregoing;
- Any application claiming priority to any of the foregoing; and
- Any past or present right or cause of action arising with respect to any of the foregoing, including the right to sue for patent infringement,

FURTHERMORE,

Assignor hereby acknowledges that any and all Invention Rights related to any Invention were at least under obligations of assignment prior to conception of such Invention; that any and all Invention Rights related to any Invention already may have been assigned to Assignee; and that this "Assignment of Invention Rights" is being duly executed for at least the purposes of public recordation with the USPTO of Assignor's rights, title, and interests in the Invention Rights.

Assignor hereby covenants and agrees, and binds any and all heirs, administrators, legal representatives, nominees, and assigns, to assist and cooperate with Assignee, at Assignee's expense, in the preparation and prosecution of any application included within the Invention Rights and in the prosecution or defense of any interference, opposition, or other proceeding that may arise in connection with any application or patent included within the Invention Rights and, further, to execute and deliver to Assignee any and all additional petitions, oaths, assignments, or other papers or instruments that may be requested by Assignee in connection herewith.

Effective with respect to each Invention at least as early as the date of conception of each such Invention, Assignor hereby authorizes and empowers Assignee to invoke and claim for any application or patent included within the Invention Rights, the benefit of any rights to which Assignor might be entitled under international law or under the laws of any particular country, and to invoke and claim such rights without further written or oral authorization from Assignor.

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Assignor covenants and agrees that this Assignment and all the terms thereof shall inure to the benefit of the successors, assigns, legal representatives, and nominees of Assignee, without further written or oral authorization from Assignor.

Finally, Assignor hereby authorizes and requests the Director of the United States Patent & Trademark Office to issue any patent included within the Invention Rights to Assignee.

This the
Assignor (Signature)
William B. Troutman
Witness #1 Signature Witness #2 Signature
Carbara T. Massey Daniel R. Womaski Witness #1 Name (print) Witness #2 Name (print)
Witness #1 Address Line 1 Witness #2 Address Line 1 Witness #2 Address Line 1
Monroe, N.C. <u>a8110</u> Charlotte, N.C. <u>a8977</u> Witness #1 Address Line 2 Witness #2 Address Line 2
NOTARY CERTIFICATE FOR ACKNOWLEDGEMENT
State of MC
County of Union
United States of America
On this day of
William B. Troutman (person appearing before notary)
Notary Signature: Edit P. Seylor
Princed Same Edith P. Taylor
My Commission Expires: 10/30/10
(Notary Seal):
(Motany Scalfe)
(Notary Scalife)
(Motany Scalfe)

This the day of July 2010
Assignor (Signature)
William B. Troutman, II
Witness #1 Signature Witness #2 Signature
Carbara T. Massey Daniel R. Womaski Witness #1 Name (print) Witness #2 Name (print)
Witness #1 Address Line 1 Witness #2 Address Line 1 Witness #2 Address Line 1
Monroe, N.C. 2810 Chadotte, N.C. 28277 Witness #1 Address Line 2 Witness #2 Address Line 2
NOTARY CERTIFICATE FOR ACKNOWLEDGEMENT
State of <u>NC</u>
County of <u>Union</u>
United States of America
On this <u>2</u> day of <u>July</u> , <u>2010</u> , I certify that the following person personally appeared before me and acknowledged to me that he or she voluntarily signed the foregoing document for the purpose stated therein and in the capacity indicated:
William B. Troutman (person appearing before notary)
Notary Signature: Sill Polacla
To (20/10
D. No. 3 Ph. Carlot C. Carlotta M. and Carlotta M. Car
(Ngtary Seal)

This the	_day of Dily	10/0
Assignor		(Signature)
lan [Mitness #1 Signature	Kovacevich	JAMESS #2 Signature
Witness #1 Name (pi		Witness #2 Name (print)
<i>/2720 </i>		804 Vocess Eine I Witness #2 Address Line I
Vitness #1 Address	<u>(26</u> 26) Line 2	<u>CHARLOTTE AC 28212</u> Witness #2 Address Line 2
	NOTARY CERTI	FICATE FOR ACKNOWLEDGEMENT
State of 1	orth Caro	ling
County of N	lochlank	evig)
United States of Ame	erica	"
On this V To I certify that the follow voluntarily signed the	owing person persor	ally appeared before me and acknowledged to me that he or she it for the purpose stated therein and in the capacity indicated:
Ian koy	acovich	(person appearing before notary)
Notary Signature	MAD)	<u> </u>
Printed Name:	my Lli	
My Commission Exp	oires: <u>4188</u>	de la company de
(Notary Seal)	Amy Ellis Notary Publ Mecklenburg C North Carlos Ay Commission System	<u>ouniv</u> <u>8</u> na

This the Governday of July 2010
Assignor The Total Assignor (Signature)
Thomas James Philipott Witness #1 Signature Witness #2 Signature Witness #2 Name (print) Witness #2 Address Line 1 Witness #2 Address Line 1 Witness #1 Address Line 2 Witness #2 Address Line 2
NOTARY CERTIFICATE FOR ACKNOWLEDGEMENT
State of North Carourna
County of MCCHChOUG
United States of America
On this
Thomas Philpott (person appearing before notary)
Notary Signar (re. MACQ)
Printed Name: KWY FILL
My Commission Expires: 42714
(Notary Seal)
Mecklenburg County North Carolina My Commission Expires 4/22/2014

This the $\frac{1}{2}$ day of $\frac{1}{2}$
Assignor (Signature)
Christopher Hoy
Witness #1 Signature Witness #2 Signature
Witness #1 Name (print) Witness #2 Name (print)
Vitness #1 Address Line 1 Witness #2 Address Line 1
<u> </u>
NOTARY CERTIFICATE FOR ACKNOWLEDGEMENT
State of NOVYN COVOLIVA
County of MCCHCOVY
United States of America
On this day of Q
Mistopher HD4 (person appearing before notary)
Notary Signature: W A CO
Printed Name: ANY EUG
My Commission Expires: 4 22 14
(NECTY Scal) Any Ellis Notary Public
Mecklenburg County North Carolina My Commission Expires 4/22/2014

This the $\sqrt{5}$ ed, day of $\sqrt{3}$	<u> 2010</u>
Assignor <u>Heisterse UL</u>	(Signature)
Lawrence Ober	
Witness #1 Signature	Witness #2 Signature
KALANA FAICE Witness #1 Name (print)	Witness #2 Name (print)
12726 Liveryod Ly. Witness #1 Address Jane 1	Witness #2 Address Line 1
<u>MYNHE</u> N <u>C</u> 28269 Witness #1 Address Line 2	Witness #2 Address Line 2
NOTARY CERTIFICA	TE FOR ACKNOWLEDGEMENT
State of NOVIN CONT	<u>M</u>
County of MOCKIENDU	
United States of America	
On this 5 th day of 70 4 I certify that the following person personally a voluntarily signed the foregoing document for	QOIO. uppeared before me and acknowledged to me that he or she the purpose stated therein and in the capacity indicated:
Lawrence Ober	(person appearing before notary)
Notary Signature: MXXVIII	
Printed Name: AMY FILLS	
My Commission Expires: 4 18414	
(Notary Scott)	
Mecklenburg County North Carolina Ny Commission Expires 4/22/2014	

	Assigne	e herel	у ассе	pts the a	ssignment	of the	linvention Ri	ights as s	set forth ab	ove.		
	This the	· a	ND	_day of	JUIY	ر ئىيىد دىيىد	<u> </u>					
					roperaiss, I	.I.C						
	By:						(Signatu	ne)				
			:				(Printed	Name)				
							Represa	ntative Tj	itle)	3	1	
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(OC3 Witnes	Trc s #1 Ac	<u>efol</u> Idress I	<u>ac</u> ine l	<u>.</u> .		<u>8710</u> Witness #	<u>Dac</u> 2 Addres	ss Line I	<u>skins</u>	Dr.	
hw	<u>Monra</u> Witnes)©, s#1 Ac	N . C Idress I	<u>බපි</u> .ine 2	ΠO		<u>Charl</u> Witness#	<u>otte,</u> 2 Addre	<u>(), C,</u> ss Line 2	<u>9</u> 89	าก	
		***************************************	••••••	NOTA	ARY CERT	iFIC/	ATE FOR AC	KNOW	LEDGEMI	NT		
	State of			N	C)				
	County	of			Union)				
	United	States	of Ame	rica								
	On this		?	day of	Jul	ly .		010			ž.	
	I certify volunta	that t rily sig	he follo ned the	wing pe foregoi	rson perso ng docume	nally : nt for	appeared before the purpose s	ore me ai stated th	nd acknow terein and	dedged t in the ca	o me that pacity ind	he or she icated:
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	MyCor	emissi įszimą	а В Ехр	ires:	10/30/	/10			***************************************			
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RECORDED: 04/09/2013