

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT														
NATURE OF CONVEYANCE:	Corrective Assignment to correct the assignment previously recorded on Reel 019256 Frame 0216. Assignor(s) hereby confirms the removal of Assignors ROBERTS, RUBIN-WILSON, PETOLINO, PAREDDY and GLANCY who were incorrectly added to this recordation.														
CONVEYING PARTY DATA															
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Kristin Briggs</td><td>09/11/2005</td></tr><tr><td>Douglas Winfield Taylor</td><td>08/19/2005</td></tr><tr><td>Mich Bradley Hein</td><td>03/13/2006</td></tr><tr><td>Andrew Caswell Hiatt</td><td>03/13/2006</td></tr><tr><td>Anton S Karnoup</td><td>07/14/2005</td></tr><tr><td>William Henry Kerr Anderson</td><td>07/28/2005</td></tr></tbody></table>		Name	Execution Date	Kristin Briggs	09/11/2005	Douglas Winfield Taylor	08/19/2005	Mich Bradley Hein	03/13/2006	Andrew Caswell Hiatt	03/13/2006	Anton S Karnoup	07/14/2005	William Henry Kerr Anderson	07/28/2005
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CORRESPONDENCE DATA															
Fax Number: (617)646-8646 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Phone: 6176468000															
Email: patents_marydilysA@wolfgreenfield.com															
Correspondent Name: MaryDilys Anderson															
Address Line 1: Wolf Greenfield & Sacks, P.C.															
Address Line 2: 600 Atlantic Avenue															
Address Line 4: Boston, MASSACHUSETTS 02210															

CH \$40.00 10536875

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PATENT
REEL: 023783 FRAME: 0868

ATTORNEY DOCKET NUMBER:	P0850.70005US01
NAME OF SUBMITTER:	MaryDilys S. Anderson
<p>Total Attachments: 17</p> <p>source=to correct Assignment#page1.tif</p> <p>source=to correct Assignment#page2.tif</p> <p>source=to correct Assignment#page3.tif</p> <p>source=to correct Assignment#page4.tif</p> <p>source=to correct Assignment#page5.tif</p> <p>source=to correct Assignment#page6.tif</p> <p>source=to correct Assignment#page7.tif</p> <p>source=to correct Assignment#page8.tif</p> <p>source=to correct Assignment#page9.tif</p> <p>source=to correct Assignment#page10.tif</p> <p>source=to correct Assignment#page11.tif</p> <p>source=to correct Assignment#page12.tif</p> <p>source=to correct Assignment#page13.tif</p> <p>source=to correct Assignment#page14.tif</p> <p>source=to correct Assignment#page15.tif</p> <p>source=to correct Assignment#page16.tif</p> <p>source=to correct Assignment#page17.tif</p>	

TO: PATRICIA GRANAHAN COMPANY: ATLANTIC AVENUE

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.105/07/2007
500271647

SUBMISSION TYPE:	NEW ASSIGNMENT																								
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Phone: 617-646-8000																									
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Correspondent Name: Patricia Granahan																									

CH \$40.00 10536875

TO: PATRICIA GRANAHAH COMPANY: ATLANTIC AVENUE

Address Line 1: 600 Atlantic Avenue
Address Line 4: Boston, MASSACHUSETTS 02210

ATTORNEY DOCKET NUMBER: P0850.70005US01

NAME OF SUBMITTER: Patricia Granahan

Total Attachments: 15

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ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

PLANT PRODUCTION OF IMMUNOGLOBULINS WITH REDUCED FUCOSYLATION

for which I/WE executed an application for United States Letters Patent on May 27, 2005; and

WHEREAS, THE DOW CHEMICAL COMPANY, whose post office address is 1790 Building, Washington St., P. O. Box 1967, Midland, MI 48674 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

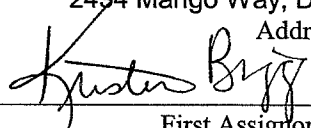
NOW THEREFORE, be it known that, for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/WE have the full right to convey the interest assigned by this Assignment, and I/WE have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/WE have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. _____, filed May 24, 2005) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/WE have hereunto set our hand(s).

County of	Kristen Briggs,
State of	Full Name of Sole or First Assignor
	2454 Mango Way, Del Mar, CA 92014
	Address
Subscribed and sworn to before me	
this ___ day of _____, 20__.	First Assignor's Signature
____ Notary Public	091105
	Date
Names of additional inventors attached [X] Yes [] No	

County of _____ State of _____	SS.	Andrew Hiatt, Ph.D. Full Name of Second Assignor 660 Torrance Street, San Diego, CA 92103-3922 Address
Subscribed and sworn to before me this ____ day of _____, 20____.		_____ Second Assignor's Signature
_____ Notary Public		_____ Date
County of _____ State of _____	SS.	Mich Hein, Ph.D. Full Name of Third Assignor 2255 W. Harrison Street, Chicago, IL 60612 Address
Subscribed and sworn to before me this ____ day of _____, 20____.		_____ Third Assignor's Signature
_____ Notary Public		_____ Date
County of _____ State of _____	SS.	Anton L. KARNOUP Full Name of Fourth Assignor 1790 Bldg, Washington Street, P.O. Box 1967, Midland, MI 48674 Address
Subscribed and sworn to before me this ____ day of _____, 20____.		_____ Fourth Assignor's Signature
_____ Notary Public		_____ Date
County of _____ State of _____	SS.	W.H. Kerr ANDERSON Full Name of Fifth Assignor 1790 Bldg, Washington Street, P.O. Box 1967, Midland, MI 48674 Address
Subscribed and sworn to before me this ____ day of _____, 20____.		_____ Fifth Assignor's Signature
_____ Notary Public		_____ Date
Names of additional inventors attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

Morgan, Lewis & Bockius LLP

County of	Doug TAYLOR
State of	Full Name of Sixth Assignor
SS.	1790 Bldg, Washington Street, P.O. Box 1967, Midland, MI 48674
	Address
Subscribed and sworn to before me this day of , 20 .	_____ Sixth Assignor's Signature
Notary Public	_____ Date
Names of additional inventors attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Morgan, Lewis & Bockius LLP

1-WA/2399669.1

PLANT PRODUCTION OF IMMUNOGLOBULINS WITH REDUCED FUCOSYLATION

THE DOW CHEMICAL COMPANY
2030 Dow Center
Midland, Michigan 48674
United States of America

Subscribed and Declared by me/us:

At: _____
this _____ day of _____, 20____

Signature: _____

Full Name: _____

Residence: _____

Country: _____

Citizenship: _____

P. O. Address: _____

Employed By: _____

Of Country: _____

☐ Additional names and signatures are attached.

PATENT
REEL: 023783 FRAME: 0876

ASSIGNMENT

I, Mich Bradley Hein, residing at 5536 South Dorchester Avenue, Unit #1W, Chicago, IL 60637 (referred to as "Assignor") has made an invention(s) (the "Invention(s)") set forth in an application for patent of the United States, entitled PLANT PRODUCTION OF IMMUNOGLOBULINS WITH REDUCED FUCOSYLATION, and which is a:

- (1) ☐ provisional application
 - (a) ☐ to be filed herewith; or
 - (b) ☐ bearing Application No. , and filed on ; or
- (2) ☒ non-provisional application
 - (a) ☐ to be filed herewith; or
 - (b) ☒ bearing Application No. 10/536,875, and filed on May 27, 2005.

WHEREAS, The Dow Chemical Company, a corporation duly organized under and pursuant to the laws of Delaware, and having its principal place of business at 2030 Dow Center, Midland, MI 48674 (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention(s); the application for patent identified in paragraph (1) or (2); the right to file applications for patent of the United States or other countries on the Invention(s); any application(s) for patent of the United States or other countries claiming priority to these application(s); any provisional or other right to recover damages, including royalties, for prior infringements of these applications; and any patent(s) of the United States or other countries that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

- (a) the Invention(s);
- (b) the application for patent identified in paragraph (1) or (2);
- (c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Hague Convention, the Paris Convention for the Protection of Industrial Property, and under the Patent Cooperation Treaty;
- (d) any application(s) for patent of the United States or other countries claiming the Invention(s);
- (e) any application(s) for patent of the United States or other countries claiming priority to the application for patent identified in paragraph (1) or (2) or any application(s) for patent claiming the Invention(s), including any division(s), continuation(s), and continuation(s)-in-part;
- (f) any provisional or other right to recover damages, including royalties, for prior infringements of any application for patent identified in the proceeding paragraphs (b)-(e); and

- (g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b) – (e), including any reissue(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignor is the sole and lawful owner of the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said applications, and said patents, including interference proceedings, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby authorizes and requests the attorneys of COOLEY GODWARD L.L.P. to insert in the spaces provided above the filing date, the application number, and the attorney docket number of the application identified in paragraph (1) or (2) when known.

The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date:

13 March 2006

By:

Mich Bradley Hein
Mich Bradley Hein

State of Illinois

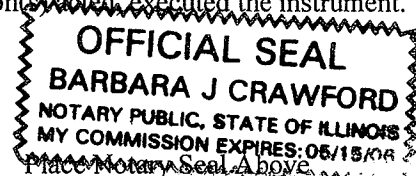
ss.

County of Cook

On 13 March 2006, before me, Barbara J. Crawford, personally appeared Mich B. Hein, personally known to me or proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Barbara J. Crawford
Signature of Notary Public



05/15/06

ASSIGNMENT

I, Andrew Caswell Hiatt, residing at 660 Torrance Street, San Diego, CA 92103 (referred to as "Assignor") has made an invention(s) (the "Invention(s)") set forth in an application for patent of the United States, entitled PLANT PRODUCTION OF IMMUNOGLOBULINS WITH REDUCED FUCOSYLATION, and which is a:

- (1) ☐ provisional application
 - (a) ☐ to be filed herewith; or
 - (b) ☐ bearing Application No. , and filed on ; or
- (2) ☒ non-provisional application
 - (a) ☐ to be filed herewith; or
 - (b) ☒ bearing Application No. 10/536,875, and filed on May 27, 2005.

WHEREAS, The Dow Chemical Company, a corporation duly organized under and pursuant to the laws of Delaware, and having its principal place of business at 2030 Dow Center, Midland, MI 48674 (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention(s); the application for patent identified in paragraph (1) or (2); the right to file applications for patent of the United States or other countries on the Invention(s); any application(s) for patent of the United States or other countries claiming priority to these application(s); any provisional or other right to recover damages, including royalties, for prior infringements of these applications; and any patent(s) of the United States or other countries that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

- (a) the Invention(s);
- (b) the application for patent identified in paragraph (1) or (2);
- (c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Hague Convention, the Paris Convention for the Protection of Industrial Property, and under the Patent Cooperation Treaty;
- (d) any application(s) for patent of the United States or other countries claiming the Invention(s);
- (e) any application(s) for patent of the United States or other countries claiming priority to the application for patent identified in paragraph (1) or (2) or any application(s) for patent claiming the Invention(s), including any division(s), continuation(s), and continuation(s)-in-part;
- (f) any provisional or other right to recover damages, including royalties, for prior infringements of any application for patent identified in the proceeding paragraphs (b)-(e); and

- (g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b) – (e), including any reissue(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignor is the sole and lawful owner of the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said applications, and said patents, including interference proceedings, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby authorizes and requests the attorneys of COOLEY GODWARD L.L.P. to insert in the spaces provided above the filing date, the application number, and the attorney docket number of the application identified in paragraph (1) or (2) when known.

The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date:

3/13/06

By:

Andrew Caswell Hiatt
Andrew Caswell Hiatt

State of CALIFORNIA)

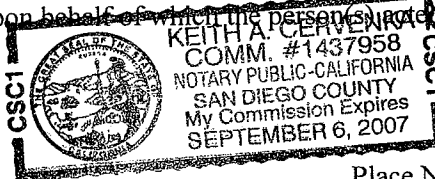
ss.

County of SAN DIEGO)

On 3/13/06, before me, KEITH A. CERVENKA, personally appeared Andrew CASWELL HIATT, personally known to me or proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Keith A. Cervenka
Signature of Notary Public



Place Notary Seal Above

INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION (WITH PRIORITY RIGHTS)

I/we verily believe I am/we are the original, first and sole/joint inventor(s) of the subject matter which is embraced by and for which a patent is sought on the invention entitled:

PLANT PRODUCTION OF IMMUNOGLOBULINS WITH REDUCED FUCOSYLATION

which invention was made and invented by me/us out of and in the course of my/our employment with my/our respective employers as stated below my/our name(s). I/we acknowledge that I/we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof in trust for our respective employers. As trustee(s), and for good and valuable consideration and/or the remuneration received for my/our work, I/we sell, assign and transfer unto:

THE DOW CHEMICAL COMPANY
2030 Dow Center
Midland, Michigan 48674
United States of America

a corporation organized and existing under the laws of **State of DELAWARE, U.S.A.**
(hereinafter referred to as the "Assignee");

my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Letters Patent in its own name, or in the name of its designee (or nominee(s)); and all rights and powers to file any corresponding or equivalent applications in any and all countries, including all rights to claim priority under all United States domestic laws, International Convention(s) and Treaties in the name of Assignee, and do hereby authorize Assignee or its designee to insert here the

Application No. _____ Filing Date _____
in country **the United States of America**

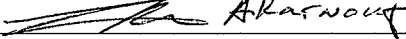
of the application, on which the claim for priority will be based; and in and to any Letters Patent that may be issued for the invention in any and all countries. I/we do hereby agree to assist Assignee in the prosecution of the application(s) and in any interference, conflict, opposition or litigation which may arise involving the invention or the patent or patents thereon, and to execute for any and all countries any document relating to applications derived from, corresponding to or equivalent to the above identified application as Assignee may request; and I/we do hereby authorize Assignee or its designee (or nominee(s)) insert here any corresponding equivalent

Application No. _____ Filing Date _____
in country _____

to the above Priority application of any country where that country's patent property must be identified and entered hereinabove for recordal of this Assignment. I/we authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent be issued to Assignee; and consent to the recordal of this Assignment, or a Notarial True Copy thereof, being under covenant not only that I/we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

Subscribed and Declared by me/us:

At: Midland, Michigan 48674, USA
this 14 day of July, 2005
Effective as of May 27, 2005

Signature: 
Full Name: **Anton S. Karnoup**
Residence: **1014 Adams Drive**
Midland, Michigan 48642
Country: **United States of America**
Citizenship: **Russia**
P. O. Address: **Same as Residence**
Employed By: **The Dow Chemical Company**
Of Country: **United States of America**

At: **Midland, Michigan 48674, USA**
this 18 day of July, 2006
Effective as of May 27, 2005
Signature: [Signature]
Full Name: **William Henry Kerr Anderson**
Residence: **5112 Cortland Street**
Midland, Michigan 48642
Country: **United States of America**
Citizenship: **Great Britain**
P. O. Address: **Same as Residence**
Employed By: **The Dow Chemical Company**
Of Country: **United States of America**

At: _____
this _____ day of _____, 20____
Signature: _____
Full Name: _____
Residence: _____
Country: _____
Citizenship: _____
P. O. Address: _____
Employed By: _____
Of Country: _____

At: _____
this _____ day of _____, 20____

Signature: _____
Full Name: _____
Residence: _____

Country: _____
Citizenship: _____
P. O. Address: _____
Employed By: _____
Of Country: _____

() Additional names and signatures are attached.

PATENT
REEL: 023783 FRAME: 0881

NOTARIAL CERTIFICATE (INDIVIDUAL)

UNITED STATES OF AMERICA)
STATE OF) SS
County/Parish of)

On this 14 day of July, 2005, personally appeared
before me,

Anton S. Karnoup

known or identified to me to be the individual described in and who executed the
foregoing document and acknowledged the same as a free act and deed for uses and
purposes therein expressed.

SEAL

cab

Caroline Ann King
Caroline Ann King
Notary Public, Gladwin County, Michigan
Acting in Midland County, Michigan
My Commission Expires June 12, 2007

NOTARIAL CERTIFICATE (INDIVIDUAL)

UNITED STATES OF AMERICA)
STATE OF) SS
County/Parish of)

On this 28th day of July, 2005, personally appeared
before me,

William Henry Kerr Anderson

known or identified to me to be the individual described in and who executed the
foregoing document and acknowledged the same as a free act and deed for uses and
purposes therein expressed.

SEAL

cab

Caroline Ann King
Notary Public

Caroline Ann King
Notary Public, Gladwin County, Michigan
Acting in Midland County, Michigan
My Commission Expires June 12, 2007

NOTARIAL CERTIFICATE (INDIVIDUAL)

UNITED STATES OF AMERICA)
STATE OF) SS
County/Parish of)

On this _____ day of _____, 20____, personally appeared
before me,

known or identified to me to be the individual described in and who executed the
foregoing document and acknowledged the same as a free act and deed for uses and
purposes therein expressed.

SEAL

PATENT