

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3819010

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the ASSIGNMENT DOCUMENT (SEE ATTACHED DECLARATION FOR CORRECTION OF STATE OF INCORPORATION OF ASSIGNEE) previously recorded on Reel 030736 Frame 0389. Assignor(s) hereby confirms the SEE ATTACHED DECLARATION REGARDING ASSIGNMENT.

CONVEYING PARTY DATA

Name	Execution Date
COSMIN DECIU	03/28/2013
ZELJKO DZAKULA	03/28/2013

RECEIVING PARTY DATA

Name:	SEQUENOM, INC.
Street Address:	3595 JOHN HOPKINS COURT
City:	SAN DIEGO
State/Country:	CALIFORNIA
Postal Code:	92121

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	13933935
Application Number:	13779638

CORRESPONDENCE DATA

Fax Number: (858)623-3224

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: 8586233240

Email: AWILLIAMSON@GRANTIP.COM

Correspondent Name: ALEXANDRA WILLIAMSON

Address Line 1: 2714 LOKER AVE WEST, SUITE 110

Address Line 4: CARLSBAD, CALIFORNIA 92010

ATTORNEY DOCKET NUMBER:	PLA-6048-UT; PLA-6048-CTT
NAME OF SUBMITTER:	KARI A. DICKINSON
SIGNATURE:	/Kari A. Dickinson/
DATE SIGNED:	04/06/2016

Total Attachments: 17

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PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Cosmin DECIU	03/28/2013
Zeljko DZAKULA	03/28/2013
RECEIVING PARTY DATA	
Name:	SEQUENOM, INC
Street Address:	3595 John Hopkins Court
City:	San Diego
State/Country:	CALIFORNIA
Postal Code:	92121
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	13779638
Application Number:	13933935
CORRESPONDENCE DATA	
Fax Number:	8586233224
Phone:	858-623-3226
Email:	aolivos@granllp.com
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Correspondent Name:	Bruce Grant c/o PortfolioIP
Address Line 1:	c/o Portfolio IP
Address Line 2:	P.O. Box 52050
Address Line 4:	Minneapolis, MINNESOTA 55402

PATENT

ATTORNEY DOCKET NUMBER:	SEQ-6048-UTT AND CTT
NAME OF SUBMITTER:	Bruce Grant reg no. 47608
Signature:	/Bruce Grant/
Date:	07/03/2013
Total Attachments: 4 source=SEQ-6048-UTT_ASSIGNMENT_signed#page1.tif source=SEQ-6048-UTT_ASSIGNMENT_signed#page2.tif source=SEQ-6048-UTT_ASSIGNMENT_signed#page3.tif source=SEQ-6048-UTT_ASSIGNMENT_signed#page4.tif	
RECEIPT INFORMATION	
EPAS ID:	PAT2451166
Receipt Date:	07/03/2013
Fee Amount:	\$80

PATENT

ASSIGNMENT AND AGREEMENT

WHEREAS, **Cosmin DECIU** of 10545 Sea Mist Way, San Diego, California 92121, U.S.A.; and **Zeljko DZAKULA** of 12830 Sundance Avenue, San Diego, California 92129, U.S.A.; (hereinafter referred to singly and collectively as "Assignor") have invented a certain invention entitled **METHODS AND PROCESSES FOR NON-INVASIVE ASSESSMENT OF GENETIC VARIATIONS** for which United States Patent Application No. 13/779,638 was filed on February 27, 2013; and

WHEREAS, **SEQUENOM, INC.**, a corporation duly organized and existing under the laws of the State of California, and having its principal place of business at 3595 John Hopkins Court, San Diego, California 92121 USA (hereinafter referred to as "Assignee") is desirous of acquiring the entire interest therein;

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto Assignee, its successors, assigns and nominees, the full and exclusive right, title, and interest in and to (a) the above-identified invention or inventions and all improvements and modifications thereof, (b) the above-identified application(s) and all other applications for patent and patents in any and all countries and jurisdictions for the above-identified invention or inventions and all improvements and modifications thereof, (c) all patents which may issue from said applications in any country or jurisdiction, (d) all divisions, continuations, reissues, and extensions of said applications and patents, and (e) the right to claim for any of said applications the full benefits and rights to priority resulting from filing any of the applications, including, without limitation, rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by Assignee, its successors, assigns and nominees, to the full end of the term or terms for which any and all such patents may be granted as fully and entirely as would have been held and enjoyed by Assignor had this Assignment not been made.

Assignor hereby authorizes and requests any official whose duty it is to issue patents to issue any patent on said invention, or improvement or modification thereof, or resulting therefrom, to Assignee as assignee of the entire interest, or its successors, assigns or nominees.

Assignor hereby agrees (a) to communicate to Assignee, its successors and assigns, or their representatives or agents, all facts and information known or available to Assignor respecting said invention or inventions, improvements, and modifications, including, without limitation, evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by Assignee; (b) to testify in person or by affidavit as required by Assignee, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by Assignee, all lawful papers including, but not limited to, original, divisional, continuation,

and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, declarations, depositions; and (d) to provide all reasonable assistance to Assignee, its successors, assigns and nominees, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

Assignor hereby represents and warrants that (a) Assignor has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein to Assignee; (b) Assignor has no obligation to sell, assign or transfer any right, title or interest herein to an entity other than Assignee; (c) that Assignor has not executed and will not execute any document or instrument in conflict herewith; (d) no consents of any other parties are necessary or appropriate under any agreements regarding the inventions, applications or patents described above for the assignment of Assignor's entire right, title and interest herein to be legally effective; and (e) to the best of Assignor's knowledge, upon consummation of this Agreement, Assignee will have good and marketable title to the inventions, applications and patents described above, free and clear of any and all encumbrances, pledges, security interests, licenses or charges of any nature whatsoever.

Assignor hereby grants to the law firm of **Grant Anderson LLP** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

Assignor understands and agrees that the attorneys and agents of the law firm of **Grant Anderson LLP** do not personally represent Assignor or Assignor's legal interests, but instead represent the interests of Assignee; since said attorneys and agents cannot provide legal advice to Assignor with respect to this Assignment, Assignor acknowledges its right to seek its own independent legal counsel.

[INTENTIONALLY LEFT BLANK]

Executed this 28th day of March, 2013.

Cosmin DECIU

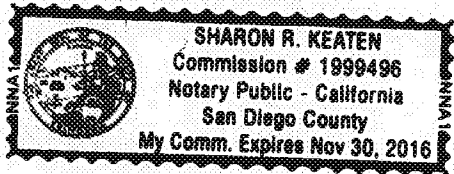
Cosmin DECIU

STATE OF CALIFORNIA)
) ss:
COUNTY OF SAN DIEGO)

On this 28th day of March, 2013, before me, Sharon Keaten,
Notary Public, personally appeared Cosmin DECIU who 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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.



(Seal)

Sharon R. Keaten

Notary Public in and for said County and State

My Commission Expires: 11-30-16

ASSIGNMENT AND AGREEMENT

WHEREAS, Cosmin DECIU of 10545 Sea Mist Way, San Diego, California 92121, U.S.A.; and Zeljko DZAKULA of 12830 Sundance Avenue, San Diego, California 92129, U.S.A.; (hereinafter referred to singly and collectively as "Assignor") have invented a certain invention entitled **METHODS AND PROCESSES FOR NON-INVASIVE ASSESSMENT OF GENETIC VARIATIONS** for which United States Patent Application No. 13/779,638 was filed on February 27, 2013; and

WHEREAS, ~~SEQUENOM, INC.~~ ^{Delaware} a corporation duly organized and existing under the laws of the State of ~~California~~, and having its principal place of business at 3595 John Hopkins Court, San Diego, California 92121 USA (hereinafter referred to as "Assignee") is desirous of acquiring the entire interest therein;

SJL
3/29/2016

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto Assignee, its successors, assigns and nominees, the full and exclusive right, title, and interest in and to (a) the above-identified invention or inventions and all improvements and modifications thereof, (b) the above-identified application(s) and all other applications for patent and patents in any and all countries and jurisdictions for the above-identified invention or inventions and all improvements and modifications thereof, (c) all patents which may issue from said applications in any country or jurisdiction, (d) all divisions, continuations, reissues, and extensions of said applications and patents, and (e) the right to claim for any of said applications the full benefits and rights to priority resulting from filing any of the applications, including, without limitation, rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by Assignee, its successors, assigns and nominees, to the full end of the term or terms for which any and all such patents may be granted as fully and entirely as would have been held and enjoyed by Assignor had this Assignment not been made.

Assignor hereby authorizes and requests any official whose duty it is to issue patents to issue any patent on said invention, or improvement or modification thereof, or resulting therefrom, to Assignee as assignee of the entire interest, or its successors, assigns or nominees.

Assignor hereby agrees (a) to communicate to Assignee, its successors and assigns, or their representatives or agents, all facts and information known or available to Assignor respecting said invention or inventions, improvements, and modifications, including, without limitation, evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by Assignee; (b) to testify in person or by affidavit as required by Assignee, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by Assignee, all lawful papers including, but not limited to, original, divisional, continuation,

and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, declarations, depositions; and (d) to provide all reasonable assistance to Assignee, its successors, assigns and nominees, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

Assignor hereby represents and warrants that (a) Assignor has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein to Assignee; (b) Assignor has no obligation to sell, assign or transfer any right, title or interest herein to an entity other than Assignee; (c) that Assignor has not executed and will not execute any document or instrument in conflict herewith; (d) no consents of any other parties are necessary or appropriate under any agreements regarding the inventions, applications or patents described above for the assignment of Assignor's entire right, title and interest herein to be legally effective; and (e) to the best of Assignor's knowledge, upon consummation of this Agreement, Assignee will have good and marketable title to the inventions, applications and patents described above, free and clear of any and all encumbrances, pledges, security interests, licenses or charges of any nature whatsoever.

Assignor hereby grants to the law firm of **Grant Anderson LLP** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

Assignor understands and agrees that the attorneys and agents of the law firm of **Grant Anderson LLP** do not personally represent Assignor or Assignor's legal interests, but instead represent the interests of Assignee; since said attorneys and agents cannot provide legal advice to Assignor with respect to this Assignment, Assignor acknowledges its right to seek its own independent legal counsel.

[INTENTIONALLY LEFT BLANK]

DECLARATION FOR CORRECTION OF ASSIGNMENT BY ASSIGNEE

This declaration is directed to United States patents and patent applications listed in attached Exhibit A.

As the below named representative of SEQUENOM, INC., I hereby declare that:

The original assignment documents recorded for the patents and patent applications listed in attached Exhibit A contained a typographical error regarding the state of incorporation for SEQUENOM, INC. Specifically, the original documents stated: "SEQUENOM, INC., a corporation duly organized and existing under the laws of the State of California" (emphasis added). Assignment documents pertaining to matters referenced in Exhibit A are corrected to read: "SEQUENOM, INC., a corporation duly organized and existing under the laws of the State of Delaware" (emphasis added). The incorporation of SEQUENOM, INC. in the State of Delaware was publicly known at the time the original assignment documents were executed, as evidenced by the Delaware Secretary of State Certificate in attached Exhibit B.

The original assignment documents recorded for certain patent applications listed in attached Exhibit A contained a further typographical error regarding the spelling of assignee's name. Specifically, the original documents listed the assignee as "Sequenome Inc." The assignment documents are corrected herein to read: "SEQUENOM, INC." The correct spelling of the name of the assignee was publicly known at the time the original assignment documents were executed, as evidenced by the Delaware Secretary of State Certificate in attached Exhibit B.

At least one named inventor for the patents and patent applications listed in attached Exhibit A is no longer employed by SEQUENOM, INC. and is not readily available to correct the original assignment document(s).

Pursuant to MPEP 323.01(b), assignee SEQUENOM, INC. requests correction.

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.

LEGAL NAME OF REPRESENTATIVE	FIRST NAME John	MIDDLE INITIAL	LAST NAME Peterson
TITLE	Associate General Counsel for SEQUENOM, INC.		
SIGNATURE: <u>John Peterson</u>	DATE: <u>Nov. 12, 2015</u>		

EXHIBIT A

Application No.	Date Filed	Attorney Docket No.	Assignment Reel/Frame	Recordation Date	Typographical Error Corrections
14/127,912	6/20/2012	PLA-6032-US	032197/0895	2/11/2014	California to Delaware
13/797,930	3/12/2013	PLA-6034-CP	031019/0833	8/15/2013	California to Delaware
13/829,164	3/14/2013	PLA-6034-CP2t	030818/0309	7/17/2013	California to Delaware
13/829,373	3/14/2013	PLA-6034-CP3	031175/0051	9/10/2013	California to Delaware
13/669,136	11/5/2012	PLA-6034-CTt	030353/0964	5/6/2013	California to Delaware; Sequenome Inc. to SEQUENOM, INC.
PCT/US2012/059123	10/5/2012	PLA-6034-PC	029255/0838	11/7/2012	California to Delaware; Sequenome Inc. to SEQUENOM, INC.
61/544,251	10/6/2011	PLA-6034-PV	029255/0838	11/7/2012	California to Delaware; Sequenome Inc. to SEQUENOM, INC.
61/663,477	6/22/2012	PLA-6034-PV2	029255/0838	11/7/2012	California to Delaware; Sequenome Inc. to SEQUENOM, INC.
61/709,899	10/4/2012	PLA-6034-PV3	029255/0838	11/7/2012	California to Delaware; Sequenome Inc. to SEQUENOM, INC.
61/808,027	4/3/2013	PLA-6034-PV4	031149/0304	9/6/2013	California to Delaware
61/827,323	5/24/2013	PLA-6034-PV5	030935/0788	8/2/2013	California to Delaware
14/350,052	10/5/2012	PLA-6036-US	035048/0261	2/27/2015	California to Delaware
13/754,817	1/30/2013	PLA-6040-CTt	030368/0483	5/7/2013	California to Delaware

Application No.	Date Filed	Attorney Docket No.	Assignment Reel/Frame	Recordation Date	Typographical Error Corrections
61/740,368	12/20/2012	PLA-6041-PV2	031142/0055	9/5/2013	California to Delaware
13/782,857	3/1/2013	PLA-6041-UT	030932/0218	8/2/2013	California to Delaware
13/797,508	3/12/2013	PLA-6045-UTt	031175/0157	9/10/2013	California to Delaware
13/933,935	7/2/2013	PLA-6048-CTt	030736/0389	7/3/2013	California to Delaware
13/779,638	2/27/2013	PLA-6048-UT	030736/0389	7/3/2013	California to Delaware
13/781,530	2/28/2013	PLA-6049-UT	030928/0116	8/1/2013	California to Delaware
61/740,377	12/20/2012	PLA-6053-PV	029741/0365	2/1/2013	California to Delaware
13/782,883	3/1/2013	PLA-6053-UT	030605/0558	6/13/2013	California to Delaware
61/827,385	5/24/2013	PLA-6068-PV	030973/0960	8/8/2013	California to Delaware
61/838,048	6/21/2013	PLA-6071-PV	031408/0853	10/15/2013	California to Delaware
PCT/US2014/058885	10/2/2014	PLA-6073-PC	034130/0867	11/7/2014	California to Delaware
61/887,081	10/4/2013	PLA-6073-PV	032940/0149	5/21/2014	California to Delaware
14/505,423	10/2/2014	PLA-6073-UT	034130/0867	11/7/2014	California to Delaware
10/723,681 Now U.S. Patent No. 7,510,835	11/25/2003 Issued on 3/31/2009	SEQ-4069-UT	014647/0439	5/18/2004	California to Delaware
PCT/US2013/050145	7/11/2013	SEQ-6022-PC3	036187/0985	7/27/2015	California to Delaware
13/940,162	7/11/2013	SEQ-6022-UT2	031735/0766	12/6/2013	California to Delaware
PCT/US2013/028699	3/1/2013	SEQ-6039-PC	031147/0037	9/5/2013	California to Delaware
13/782,901	3/1/2013	SEQ-6039-UT	031147/0037	9/5/2013	California to Delaware

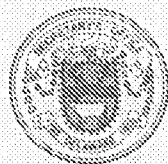
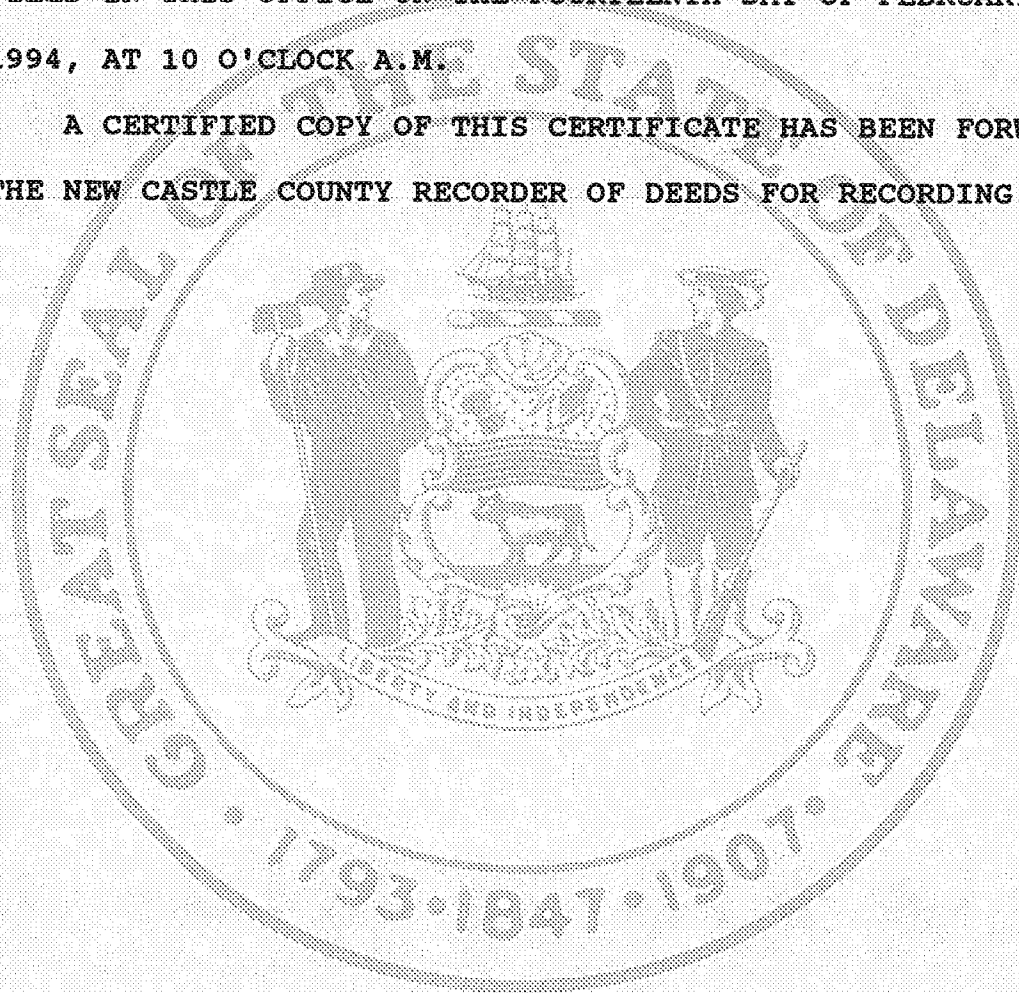
Application No.	Date Filed	Attorney Docket No.	Assignment Reel/Frame	Recordation Date	Typographical Error Corrections
13/781,257	2/28/2013	SEQ-6047-UT	030917/0824	7/31/2013	California to Delaware
61/780,162	3/13/2013	SEQ-6063-PV	030589/0959	6/11/2013	California to Delaware
PCT/US2014/037008	5/6/2014	SEQ-6069-PC	033480/0854	8/6/2014	California to Delaware
61/820,369	5/7/2013	SEQ-6069-PV	031410/0064	10/15/2013	California to Delaware
14/271,269	5/6/2014	SEQ-6069-UT	033480/0854	8/6/2014	California to Delaware
61/887,801	10/7/2013	SEQ-6074-PV	031915/0110	1/8/2014	California to Delaware
61/952,135	3/13/2014	SEQ-6075-PV	033007/0500	6/2/2014	California to Delaware
62/030,958	7/30/2014	SEQ-6077-PV	034112/0096	11/5/2014	California to Delaware
62/009,104	6/6/2014	SEQ-6078-PV	033201/0100	6/27/2014	California to Delaware
62/031,028	7/30/2014	SEQ-6079-PV	034140/0369	11/10/2014	California to Delaware
62/005,811	5/30/2014	SEQ-6080-PV	033291/0025	7/10/2014	California to Delaware
62/062,748	10/10/2014	SEQ-6081-PV	035080/0046	3/3/2015	California to Delaware
62/079,737	11/14/2014	SEQ-6082-PV	034385/0657	12/5/2014	California to Delaware
62/113,070	2/6/2015	SEQ-8001-PV	035580/0905	5/6/2015	California to Delaware

State of Delaware

Office of the Secretary of State

I, WILLIAM T. QUILLEN, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF INCORPORATION OF "SEQUENOM, INC.", FILED IN THIS OFFICE ON THE FOURTEENTH DAY OF FEBRUARY, A.D. 1994, AT 10 O'CLOCK A.M.

A CERTIFIED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS FOR RECORDING.



William T. Quillen

William T. Quillen, Secretary of State

2377757 8100

944019288

AUTHENTICATION: 7029224

DATE: 02-16-94

PATENT