

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Jonathan E. SILVER</td> <td>11/14/1997</td> </tr> <tr> <td>Olga V. KALININA</td> <td>11/12/1997</td> </tr> </tbody> </table>		Name	Execution Date	Jonathan E. SILVER	11/14/1997	Olga V. KALININA	11/12/1997
Name	Execution Date						
Jonathan E. SILVER	11/14/1997						
Olga V. KALININA	11/12/1997						
RECEIVING PARTY DATA							
Name:	United States of America, as represented by the Secretary, Department of Health and Human Services						
Street Address:	200 Independence Avenue, SW						
City:	Washington						
State/Country:	DISTRICT OF COLUMBIA						
Postal Code:	20201						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13572649</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13572649		
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Application Number:	13572649						
CORRESPONDENCE DATA							
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<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
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ATTORNEY DOCKET NUMBER:	1002.0043-19000						
NAME OF SUBMITTER:	Susanne T. Jones						
Signature:	/Susanne T. Jones, Reg. No. 44,472/						

OP \$40.00 13572649

Date:

07/10/2013

Total Attachments: 4

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ASSIGNMENT

WHEREAS, we: Jonathan E. SILVER, a United States Citizen residing at 7516 Arrowood Road, Bethesda, Maryland 20817, an employee of the Department of Health and Human Services; and Olga V. KALININA, a Citizen of Russia residing at 280 Saint George St., Apt. # 403, Toronto, Ontario M5R 2P7, CANADA, working under an obligation to the National Institutes of Health, are, with joint inventor James F. BROWN, coinventors of a certain new and useful invention as set forth in an application for United States Letters Patent for an invention entitled METHOD OF SAMPLING, AMPLIFYING AND QUANTIFYING SEGMENT OF NUCLEIC ACID, POLYMERASE CHAIN REACTION ASSEMBLY HAVING NANOLITER-SIZED SAMPLE CHAMBERS, AND METHOD OF FILLING ASSEMBLY, executed by me, Jonathan E. SILVER, on Nov. 14, 1997, and by me, Olga V. KALININA, on Nov. 10, 1997, Serial No. 08/838,262, filed April 17, 1997; and

WHEREAS, we are named as inventors, together with James F. Brown, in the above-identified application for Letters Patent; and

WHEREAS, the conditions under which said invention was made are such as to jointly entitle the Government and Cytonix Corporation of Beltsville, Maryland, to the entire right, title, and interest herein, both domestic and foreign; and

WHEREAS, the Government of the United States is desirous of acquiring our domestic and foreign right, title and interest in the aforesaid invention described in the aforesaid application of Letters Patent of the United States;

NOW, THEREFORE, for good and valuable consideration the receipt of which is hereby acknowledged, we hereby assign and transfer to the United States of America, represented by the Secretary, Department of Health and Human Services, the full and exclusive right, title and interest that we have to assign and transfer in and to said invention in the United States and within each and every foreign country in which the Government or Cytonix Corporation elects to file, and the full and exclusive right, title and interest that we have to assign and transfer in and to such applications, and any continued prosecution applications, continuations, continuations-in-part, divisionals, reissues or extensions thereof, and including priority rights as may be filed in the United States and foreign countries, and such Letters Patents as have issued or may be granted on continued prosecution applications to be held by the Government to the end of the term for which the same would have been held by us had this assignment not been made.

I further agree to make, execute, and deliver to the Secretary, Department of Health and Human Services, upon request, any and all papers, documents, affidavits, or other instruments that may be necessary in the prosecution of any application or applications for

improvements or reissues of Letters Patent, and further agree to assist the Government in every way in protecting said invention as may be requested, provided that any expense arising through extending such assistance will be paid by the Government.

IN WITNESS WHEREOF, I hereunto set my hand and seal

this 14th day of Nov., 1997

Jonathan E. Silver

Jonathan E. SILVER

STATE OF

COUNTY OF

On this 14th day of Nov., 1997, before me, a Notary Public in and for the State and County aforesaid, personally appeared Jonathan E. Silver, personally known to me or proven on the basis of satisfactory evidence to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be his/her free act and deed.

Mark L. Davidson
Mark L. Davidson *Montgomery Co., Maryland*

Notary Public in and for aforesaid County and State

MARK L. DAVIDSON

NOTARY PUBLIC STATE OF MARYLAND

My commission expires: My Commission Expires March 25, 2000

AND IN WITNESS WHEREOF, I hereunto set my hand and seal

this 12 day of Nov., 1997

Olga V. Kalinina

(LS)

Olga V. KALININA

COUNTRY OF CANADA

PROVINCE OF Ontario

COUNTY OF

On this 12 day of Nov., 1997, before me, a Notary Public in and for the province and County aforesaid, personally appeared Olga. V. Kalinina, personally ~~known to me~~ or proven on the basis of satisfactory evidence to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be ~~his~~/her free act and deed. *MD*

Neil Harold Dobbs

Notary Public in and for aforesaid Province and County

NEIL HAROLD DOBBS, Notary Public, Municipality of Metropolitan Toronto, limited to the attestation of instruments, and the taking of affidavits, for the University of Toronto.
Expires April 22, 1999.

My commission expires