503992434 09/06/2016

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT

ASSIGNMENT

CONVEYING PARTY DATA

NATURE OF CONVEYANCE:

| Name | Execution Date |
|------------------|----------------|
| JAMES ROZZELLE | 03/05/2003 |
| ELENA BOLCHAKOVA | 03/05/2003 |

RECEIVING PARTY DATA

| Name: | APPLERA CORPORATION |
|-----------------|--------------------------|
| Street Address: | 850 LINCOLN CENTRE DRIVE |
| City: | FOSTER CITY |
| State/Country: | CALIFORNIA |
| Postal Code: | 94404 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13615041 |

CORRESPONDENCE DATA

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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.

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Email: lifetechdocket@system.foundationip.com
Correspondent Name: LIFE TECHNOLOGIES CORPORATION

Address Line 1: ATTN: IP LEGAL DEPARTMENT

Address Line 2: 5823 NEWTON DRIVE

Address Line 4: CARLSBAD, CALIFORNIA 92008

| ATTORNEY DOCKET NUMBER: | 4768-D1C1 US |
|-------------------------|------------------|
| NAME OF SUBMITTER: | GRACIE SEGOVIA |
| SIGNATURE: | /Gracie Segovia/ |
| DATE SIGNED: | 09/06/2016 |

Total Attachments: 3

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PATENT 503992434 REEL: 039640 FRAME: 0633

ASSIGNMENT

For good and valuable consideration paid to us, receipt of which is hereby acknowledged, we each:

James E. Rozzelle, 611 2nd Avenue, San Francisco, CA 94118, Citizenship: US Elena V. Bolchakova, 5866 Carmel Way, Union City, CA 94587, Citizenship: Russia

do hereby sell, assign, and set over unto

Applera Corporation

a Delaware corporation having a place of business at 850 Lincoln Centre Drive, Foster City, California (hereinafter "Assignee"), its successors, legal representatives and assigns, each of our entire right, title, and interest in and to any and all of our inventions and discoveries entitled:

Thermus Brockianus Nucleic Acid Polymerases

as described and/or claimed in our United States patent application, having an oath or declaration fully executed by us and, subsequently assigned Serial Number 10/302,817 and filing date of November 22, 2002 by the United States Patent and Trademark Office; in and to the right to file patent applications in the name of Assignee, its designee, in all of our names, or in any other name or names, on the aforesaid inventions and discoveries in any or all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified United States patent application under the International Convention for the Protection of Industrial Property, under the Inter-American Convention relating to Inventions, Patents, Designs and Industrial Models, and under any other international arrangement to which the United States now is or hereafter becomes a signatory; in and to any and all applications for Letters Patent, and any and all Letters Patent that issue on any of the aforesaid applications, and in and to any and all divisions, continuations, and continuations-in-part of any and all of said applications, and any and all reissues, renewals and extensions of any of said Letters Patent, such that the same right, title and interest to be held and enjoyed by Assignee, its successors, assigns or other legal representatives, to the full ends of the terms for which all Letters Patent therefor may be granted, shall be as full and complete as that that would have been held and enjoyed by us if this assignment and sale had not been made.

We further hereby covenant and agree, for the same consideration, whenever counsel of Assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with said invention, or said application for Letters Patent, including interference proceedings, is lawful and desirable, or that any division, continuation, or continuation-in-part of any application for Letters Patent, or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable to sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said invention, without charge to said Assignee, its successors, legal representatives and assigns, but at the cost and expense of said Assignee, its successors, legal representatives and assigns.

We hereby authorize Assignee to insert in this instrument the serial number and filing date of said application when officially notified thereof.

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PATENT REEL: 039640 FRAME: 0634

| Name of inventor: James E. Rozzelle Inventor's signature Augus E. Rozzelle | Date: 5 March 03 |
|--|------------------|
| | |

State of California) ss.
County of San Mateo)

On <u>March</u> 5, 2003 before me, <u>Chery L. R. Gomez</u>, Notary Dublic, personally appeared <u>James E. Rozzelle</u>, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature 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.

CHERYL R. GOMEZ
Comm. # 1212381
NOTARY PUBLIC CALIFORNIA
San Mateo County
My Comm. Expires March 5, 2003

Motary Public ...

| Name of inventor: Elena V. Bolchakova |
|--|
| Inventor's signature Double Date: 03/05/03. |
| State of California)) ss. County of San Mateo) |
| On March 5, 2003 before me, Chery L. R. Gomez, Notary Public personally appeared Elena V. Bolchakova, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity(ies), and that by her signature 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. |
| CHERYL R. GOMEZ Comm. # 1212381 NOTARY PUBLIC CALIFORNIA San Mateo County My Comm Expires March 5, 2003 |