

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3174262

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ARIZONA BOARD OF REGENTS	08/26/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	LIFE TECHNOLOGIES CORPORATION
<b>Street Address:</b>	5791 VAN ALLEN WAY
<b>City:</b>	CARLSBAD
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92008
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14268224
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>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.</i>	
<b>Email:</b>	lifetechdocket@system.foundationip.com
<b>Correspondent Name:</b>	CHRISTIAN D'AVIGNON-AUBUT
<b>Address Line 1:</b>	5791 VAN ALLEN WAY
<b>Address Line 2:</b>	LIFE TECHNOLOGIES CORPORATION
<b>Address Line 4:</b>	CARLSBAD, CALIFORNIA 92008
<b>ATTORNEY DOCKET NUMBER:</b>	LT00853.1 CON 11
<b>NAME OF SUBMITTER:</b>	ELIZABETH MORGAN
<b>SIGNATURE:</b>	/Elizabeth Morgan/
<b>DATE SIGNED:</b>	01/08/2015
<b>Total Attachments: 5</b>	
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**EXHIBIT B**  
**ASSIGNMENT OF PATENTS**

This ASSIGNMENT OF PATENTS (this "Assignment of Patents") is executed and delivered as of August 23, 2013, by The Arizona Board of Regents for and on behalf of Arizona State University ("Assignor"), in favor of Life Technologies Corporation, a Delaware corporation ("Assignee"), pursuant to that certain Patent Purchase Agreement dated as of July 31, 2013 (the "Purchase Agreement"), between Assignor and Assignee. Capitalized terms not otherwise defined herein shall have the respective meanings set forth in the Purchase Agreement.

WHEREAS, Assignor is the owner of the patents and/or patent applications listed on Schedule 1 which is attached hereto and incorporated by this reference (collectively, the "Patents"); and

WHEREAS, pursuant to the Purchase Agreement, Assignor has agreed to transfer, and Assignee has agreed to accept, all of the Purchased Patents; and

WHEREAS, the purpose of this document is to confirm, complete and memorialize such transfer of the Patents from Assignor to Assignee;

NOW, THEREFORE, for good and valuable consideration the receipt and sufficiency of which is hereby acknowledged:

Assignor hereby sells, assigns, transfers and sets over unto Assignee, its successors, legal representatives and assigns, Assignor's entire right, title, and interest in, to, and under the Patents and all applications claiming priority thereto and divisions, renewals, continuations and continuations-in-part thereof, and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which have been and may hereafter be filed for said Patents in any country or countries foreign to the United States, including but not limited to those foreign patents and applications specifically described in Schedule 1, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates, and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof.

Assignor authorizes and requests the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to Assignee, its successors, legal representatives, and assigns, in accordance with the terms of this instrument.

Assignor, at Assignee's sole expense, agrees to execute and deliver at the request of the Assignee, all papers, instruments, and assignments, and to perform any other reasonable acts the

Assignee may require in order to vest all Assignor's rights, title, and interest in and to the Patents in the Assignee and/or to provide evidence to support any of the foregoing in the event such evidence is deemed necessary by the Assignee, to the extent such evidence is in the possession or control of Assignor.

Nothing contained in this Assignment of Patents shall expand, reduce, modify, or waive any rights or obligations of the Parties under the Purchase Agreement. In the event that any of the provisions of this Assignment of Patents are determined to conflict with the terms of the Purchase Agreement, the terms of the Purchase Agreement shall control.

*[Signatures are on the following page]*

IN WITNESS WHEREOF, the Assignor and Assignee have caused this Assignment of Patents to be executed on the dates set forth below, to be effective as of the date first written above.

**ASSIGNOR:**

THE ARIZONA BOARD OF REGENTS FOR  
AND ON BEHALF OF ARIZONA STATE  
UNIVERSITY

By *Samarak Deuser*  
Name: TAMARA K. DEUSER  
Title: ASSISTANT VICE PRESIDENT  
Date: Aug. 26, 2013

**ASSIGNEE:**

LIFE TECHNOLOGIES CORPORATION

By *Paul Grossman*  
Name: PAUL GROSSMAN  
Title: SVP, STRATEGY & CORP DEV  
Date: 8/29/13

Signature Page to Assignment of Patents.

**PATENT**  
**REEL: 031159 FRAME: 0630**

**PATENT**  
**REEL: 034662 FRAME: 0782**

STATE OF ARIZONA )  
 ) ss.  
COUNTY OF MARICOPA )

On this 20 day of August, 2013, before me, a Notary Public in and for the State of Arizona, personally appeared Tamara Deuser, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person who executed this instrument, on oath stated that he was authorized to execute the instrument, and acknowledged it, as the Assignor of THE ARIZONA BOARD OF REGENTS FOR AND ON BEHALF OF ARIZONA STATE UNIVERSITY, to be the free and voluntary act and deed of said company for the uses and purposes mentioned in the instrument.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year first above written.

Miranda Pratt

NOTARY PUBLIC in and for the State of Arizona,  
residing at 6600 S. Mill Ave., Tempe, AZ 85281  
My appointment expires February 9, 2016  
Print Name Miranda Pratt

STATE OF ARIZONA )  
 ) ss.  
COUNTY OF MARICOPA )



PATENT  
REEL: 031159 FRAME: 0631

PATENT  
REEL: 034662 FRAME: 0783

**SCHEDULE 1 to the ASSIGNMENT OF PATENTS**

US Provisional App. No. 60/083,840  
International App. No. PCT/US99/09616 and all corresponding national phase applications and national phase patents  
International App. No. PCT/US02/27605 and all corresponding national phase applications and national phase patents  
US Patent No. 7,645,596  
US Patent No. 6,780,591  
US Patent No. 7,037,687  
US Patent No. 7,875,440  
US Patent No. 8,216,514  
US Patent No. 8,263,364  
US Patent No. 8,263,365  
US Ser. No. 09/673,544, now abandoned  
US Ser. No. 09/941,882  
US Ser. No. 10/229,997  
US Ser. No. 10/709,436  
US Ser. No. 11/929,141  
US Ser. No. 12/617,842, now abandoned  
US Ser. No. 12/969,872  
US Ser. No. 13/008,303  
US Ser. No. 13/008,392  
US Ser. No. 13/099,718  
US Ser. No. 13/156,117  
US Ser. No. 13/408,458  
US Ser. No. 13/894,385  
US Ser. No. 13/913,433  
US Reexamination No. 95/001,529  
US Reexamination No. 95/001,532  
US Reexamination No. 95/001,643  
Canadian Patent Application No. CA 2,458,777  
Canadian Patent Application No. CA 2,330,673  
Canadian Patent No. CA 2,330,673  
European Patent Publication No. EP 1 427 851  
European Patent Publication No. EP 1 082 458  
Japanese Patent Application No. JP 2000-547272  
Japanese Patent Publication No. JP 2002-513594  
Japanese Patent Publication No. JP 2005-511018  
Japanese Patent Publication No. JP 2005-000174  
Japanese Patent No. JP 3813818  
Australian Patent Application No. 2002-323489

**RECORDED: 09/03/2013**

**PATENT  
REEL: 031159 FRAME: 0632**

**RECORDED: 01/08/2015**

**PATENT  
REEL: 034662 FRAME: 0784**