503127635 01/08/2015

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LINDA BLOOM	02/05/2001

RECEIVING PARTY DATA

Name:	ARIZONA BOARD OF REGENTS
Street Address:	ARIZONA STATE UNIVERSITY
City:	TEMPE
State/Country:	ARIZONA
Postal Code:	85287

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14268224

CORRESPONDENCE DATA

Fax Number:

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.

Email: lifetechdocket@system.foundationip.com

Correspondent Name: CHRISTIAN D'AVIGNON-AUBUT

Address Line 1: 5791 VAN ALLEN WAY

Address Line 2: LIFE TECHNOLOGIES CORPORATION

Address Line 4: CARLSBAD, CALIFORNIA 92008

ATTORNEY DOCKET NUMBER:	LT00853.1 CON 11
NAME OF SUBMITTER:	ELIZABETH MORGAN
SIGNATURE:	/Elizabeth Morgan/
DATE SIGNED:	01/08/2015

Total Attachments: 5

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PATENT 503127635 REEL: 034662 FRAME: 0711

<u>ASSIGNMENT</u>

WHEREAS, WE, PETER WILLIAMS, citizen of Great Britain, MARK A. HAYES, SETH D. ROSE, LINDA B. BLOOM and VINCENT B. PIZZICONI, citizens of the United States of America, whose post office addresses are 4701 N. 56th Street, Phoeniz, Arizona 85018, 3583 W. Barcelona Drive, Chandler, Arizona 85226, 613 East Balboa Drive, Tempe, Arizona 85282, 912 N. Benson Lane, Chandler, Arizona 85224 and 3435 E. Highline Canal Road, Phoeniz, Arizona 85040, respectively, have made an invention entitled "METHOD OF DETERMINING THE NUCLEOTIDE SEQUENCE OF OLIGONUCLEOTIDES AND DNA MOLECULES" as set forth and described in U.S. Patent Application No. 09/673544, filed October 17, 2000; and

WHEREAS, ARIZONA BOARD OF REGENTS (hereinafter "ARIZONA"), having its principal place of business at Arizona State University, Tempe, Arizona 85287, U.S.A. is desirous of acquiring the entire right, title and interest in and to said invention and any improvements thereon, and in and to said international patent application therefor, and in and to the any application for Letters Patent therefor, and any Letters Patent which may be obtained therefor;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that WE, the said PETER WILLIAMS, MARK A. HAYES, SETH D. ROSE, LINDA B. BLOOM and VINCENT B. PIZZICONI, for and in consideration of the sum of One Dollar (\$1.00), lawful money of the United States, to us in hand paid by said ARIZONA, and other valuable considerations unto us moving from said ARIZONA, at or before the ensealing and delivery of these presents, the receipt of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents do sell, assign, transfer and convey, unto said ARIZONA, its successors and assigns, the entire right, title and interest in and to the said invention entitled "METHOD OF DETERMINING THE NUCLEOTIDE SEQUENCE OF OLIGONUCLEOTIDES AND DNA MOLECULES" as set forth and described in U.S. Patent Application No. 09/673544, filed October 17, 2000, and any and all improvements thereon, and in and to said international patent application therefor, and in and to any application for Letters Patent therefor, and any division, continuation or continuation-in-part thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention or improvements including all priority rights, and any and all Letters Patent which may be granted in foreign countries therefor, TO HAVE AND TO HOLD THE SAME to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND WE, the said PETER WILLIAMS, MARK A. HAYES, SETH D. ROSE, LINDA B. BLOOM and VINCENT B. PIZZICONI, do hereby authorize and

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PATENT REEL: 014503 FRAME: 0224

> PATENT REEL: 034662 FRAME: 0712

request the Commissioner of Patents and Trademarks to issue the said Letters Patent of the United States to said ARIZONA, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said ARIZONA, its successors and assigns;

AND WE, the said PETER WILLIAMS, MARK A. HAYES, SETH D. ROSE, LINDA B. BLOOM and VINCENT B. PIZZICONI, for the considerations aforesaid, do hereby covenant and agree to and with said ARIZONA, its successors and assigns, that we have the full power to make this assignment, and that the rights assigned are not encumbered by any grant, license or right heretofore given, and that we, our executors or administrators, shall and will do all lawful acts and things and make, execute and deliver without further compensation, any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments, and other documents which, in the opinion of counsel for said ARIZONA, its successors and assigns, may be required or necessary more effectively to secure to and vest in said ARIZONA, its successors and assigns, the entire right, title and interest in and to said invention and improvements, applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned, transferred and conveyed, and that we will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for the said invention or improvements.

IN WITNESS WHEREOF, WE, the said PETER WILLIAMS, MARK A. HAYES, SETH D. ROSE, LINDA B. BLOOM and VINCENT B. PIZZICONI, have hereunto set our hands and seals on the date below written.

STATE OF ATTACHA : ss.: COUNTY OF Maricopa

BE IT KNOWN, that on this 10 day of hopearca, 2001, before me personally came PETER WILLIAMS, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.



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-2-

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> **PATENT** REEL: 034662 FRAME: 0713

	Mul a. Hays
STATE OF Arizona) : ss.: COUNTY OF Maricopa)	1
BE IT KNOWN, that on this personally came MARK A. HAYES, to me mentioned in and who executed the foregoin that he executed the same as his free act and mentioned.	g assignment, and he acknowledged to me
PATRICIA A. CEDERBERG NOTARY PUBLIC-ARIZONA MARICOPA COUNTY My Contin. Expires April 19, 2004	Notary Public
	Seth D. Rose SETH D. ROSE
STATE OF Arizona) : ss.: COUNTY OF Maricopa)	
BE IT KNOWN, that on this personally came SETH D. ROSE, to me known mentioned in and who executed the foregoin that he executed the same as his free act and mentioned.	g assignment, and he acknowledged to me
OFFICIAL SEAL PATRICIA A, CEDERBERG NOTAHY PUBLIC-ARIZONA MARICOPA COUNTY My Corum Expires April 19 2004	,

-3-

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L B / S LINDA B. BLOOM

STATE OF F	LORIDA)		
STATE OF F				_
personally carr mentioned in a	ne LINDA B. I and who execut	BLOOM, to m ted the foregoi	e known and known to ng assignment, and he deed for the use and	2001 14RY, 2000, before me to me to be the person e acknowledged to me dipurposes therein A. Australia
			VINCENT B. PIZZ	ZICONI
STATE OF)		
COUNTY OF		: ss.:)		
personally cam person mention	e VINCENT E ned in and who	B. PIZZICONI executed the	, to me known and ki foregoing assignment	, 2000, before me nown to me to be the t, and he acknowledged se and purposes therein
			Notary	Public

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-4-

PATENT REEL: 014503 FRAME: 0227

> PATENT REEL: 034662 FRAME: 0715

A31734 PCT USA 072448.0303

		LINDA B. BLOOM
STATE OF)	
COUNTY OF	: ss.:)	
personally came LINDA B. E mentioned in and who execut	BLOOM, to me ed the foregoin	day of, 2000, before me known and known to me to be the person ag assignment, and he acknowledged to me deed for the use and purposes therein
		Notary Public
		VINCENT B. PIZZJEONI
STATE OF Arizona)	
COUNTY OF Manieopa	; ss.:)	
personally came VINCENT Be person mentioned in and who	B. PIZZICONI, executed the f	day of Februaris, 2006, before me to me known and known to me to be the oregoing assignment, and he acknowledged ct and deed for the use and purposes therein
OFFICIAL SEAL PATRICIA A. CEDERBERG NOTARY PUBLIC-ARIZONA MARICOPA COUNTY My Comm. Expires April 19, 2004		Notary Public

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-4-

PATENT
RECORDED: 09/22/2003 REEL: 014503 FRAME: 0228

PATENT REEL: 034662 FRAME: 0716

RECORDED: 01/08/2015