504198476 01/26/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4245152

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MIN YUE	08/10/2006
DAVID M. LIU	08/10/2006
YUH-MIN CHIANG	08/10/2006
JOON MO YANG	08/10/2006
DENNIS LEHTO	08/08/2006
CHARLES S. VANN	09/06/2006
NIGEL P. BEARD	08/10/2006
IAN A. HARDING	08/09/2006
JOHN VAN CAMP	09/07/2006
ALEXANDER DROMARETSKY	09/07/2006
SERGEY V. ERMAKOV	09/07/2006
MARK F. OLDHAM	08/15/2006
JOY ROY	09/09/2006
MARYAM SHARIATI	09/08/2006
UMBERTO ULMANELLA	08/10/2006

RECEIVING PARTY DATA

Name:	APPLERA CORPORATION	
Street Address:	5823 NEWTON DRIVE	
City:	CARLSBAD	
State/Country:	CALIFORNIA	
Postal Code:	92008	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	14093933	

CORRESPONDENCE DATA

Fax Number: (760)476-6048

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: 760-603-7200

PATENT '6 REEL: 041096 FRAME: 0138

504198476

Email: lsgdocketing@thermofisher.com

Correspondent Name: LIFE TECHNOLOGIES CORPORATION

Address Line 1: 5823 NEWTON DRIVE

Address Line 4: CARLSBAD, CALIFORNIA 92008

ATTORNEY DOCKET NUMBER:	5821-C2US
NAME OF SUBMITTER:	CHERI GOMEZ
SIGNATURE:	/Cheri Gomez/
DATE SIGNED:	01/26/2017

Total Attachments: 16

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PATENT REEL: 041096 FRAME: 0139

ASSIGNMENT

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

Min Yue, 300 Davey Glen Road, # 3707, Belmont CA 94002, Citizenship: China; David M. Liu, 1219 Carmel Terrace, Los Altos CA 94024, Citizenship: United States; Yuh-Min Chiang, 110 Rock Harbor Lane, Foster City, CA 94404, Citizenship: Taiwan; Joon Mo Yang, 320 Meridian Drive, Redwood City, CA 94065, Citizenship: Korean; Dennis Lehto, 3563 Mauricia Avenue, Santa Clara, CA 95051, Citizenship: United States; Charles S. Vann, 154 Madrona Avenue, El Granada, CA 94018, Citizenship: United States: Nigel P. Beard, 3024 Whisperwave Circle, Redwood City, CA 94065, Citizenship: Great Britain; Ian A. Harding, 147 Burbank Avenue, San Mateo, CA 94403, Citizenship: United States; John Van Camp, 3001 Summit View Drive, San Ramon, CA 94583, Citizenship: United States; Alexander Dromaretsky, 209 Faro Avenue, Davis, CA 95616, Citizenship: United States; Sergey V. Ermakov, 2209 Oak Creek Lane, Hayward, CA 94541, Citizenship: United States; Mark F. Oldham, 16500 Soda Springs Road, Los Gatos, CA 95033, Citizenship: United States; Joy Roy, 5931 Exeter Court, San Jose, CA 95138, Citizenship: United States; Maryam Shariati, 1586 Oriole Avenue, Sunnyvale, CA 94087, Citizenship: United States; and Umberto Ulmanella, 198 Beach Park Blvd., Foster City, CA 94404, Citizenship: Italy;

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:

SYSTEMS AND METHODS FOR MULTIPLE ANALYTE DETECTION

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 11/380,327 and filing date of April 26, 2006 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

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PATENT REEL: 041096 FRAME: 0140

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.

Name of inventor: MIN YUE

Inventor's signature Jacob Date: Aug 10, 2006

State of California

County of San Mateo)

On August 10, 2006 before me, Cheryl R. Gomez, Notary Public, personally appeared Min Yue, 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 keyshells executed the same in his her their authorized capacity (hes), and that by his her bir signature on the instrument the person(x), or the entity upon behalf of which the person(x) acted, executed the instrument.

WITNESS my hand and official seal.

Cheryl &.)

Name of inventor: DAVID M. LIU	
Inventor's signature Mushlyh	Date: 8/10/06.
State of California)	
) ss. County of San Mateo)	
County of San Mateo)	
On August D, 2006 before me, Cheryl R. David M. Liu, personally known to me (or proved to me or person whose name is subscribed to the within instrument executed the same in his/her/their authorized capacity(instrument the person(x), or the entity upon behalf of which	n the basis of satisfactory evidence) to be the nt and acknowledged to me that he/she/they s), and that by his/her/their signature on the
WITNESS my hand and official seal.	
CHERYL R. GOMEZ COMM. # 1409640 NOTARY PUBLIC • CALIFORNIA R SAN MATEO COUNTY Comm. Exp. APRIL 6, 2007	Cheryl & Domes. Novary Public

Name of inventor: YUH-MIN CHIANG

Inventor's signature

Date: Any 10 mol.

State of California
) ss.

County of San Mateo)

On August 10 _____, 2006 before me, Cheryl R. Gomez, Notary Public, personally appeared Yuh-Min Chiang, 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/states/executed the same in his/her/their authorized capacity(NeS), and that by his/her/their 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.

Name of inventor: JOON MO YANG
Inventor's signature
State of California)
) ss.
County of San Mateo)
On August 10, 2006 before me, Cheryl R. Gomez, Notary Public, personally appeared Joon Mo Yang, 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/she/their executed the same in his/her/their authorized capacity(i), and that by his/her/their signature on the instrument the person(), or the entity upon behalf of which the person() acted, executed the instrument
WITNESS my hand and official seal.
CHERYL R. GOMEZ COMM. # 1400840 NOTANY PUBLIC - CALPONNA 8

Cust Ivo. Box1
Name of inventor: DENNIS LEHTO
Inventor's signature Renna Lehto Date: 8-8-2006
State of California)
) ss. County of San Mateo)
On August 8, 2006 before me, Cheryl R. Gomez, Notary Public, personally appeared Dennis Lehto, 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/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their 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. # 1409640 NOTARY PUBLIC & CALIFORNIA R SAN MATEO COUNTY CONTYN. Exp. APRIL 6, 2007

Name of inventor: CHARLES S. VANN	
Inventor's signature Charles & Conn	Date: 9/6/06.
State of California)	
) ss. County of San Mateo)	
On September 6, 2006 before me, Che Charles S. Vann, personally known to me (or proved to person whose name is subscribed to the within instead capacitistrument the person (s), or the entity upon behalf of various capacitistrument the person (s), or the entity upon behalf of various capacitistrument the person (s).	o me on the basis of satisfactory evidence) to be the rument and acknowledged to me that he/she/they ity()es), and that by his/her/their signature on the
WITNESS my hand and official seal.	
CHERYL R. GOMEZ COMM. # 1409840	Cheryl Q. Somen. Notary Public

N. S. A. MICHARD
Name of inventor: NIGEL P. BEARD
Inventor's signature Date: Date:
State of California)
) ss.
County of San Mateo)
On August 10, 2006 before me, Cheryl R. Gomez, Notary Public, personally appeared Nigel P. Beard, 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/shother executed the same in his authorized capacity(16), and that by his/hours signature on the instrument the person(16), or the entity upon behalf of which the person(16) acted, executed the instrument
WITNESS my hand and official seal.
$\mathcal{M}_{\mathcal{A}}$
CHERYL R. GOMEZ COMM. # 1400840 Notary Public Notary Public

Name of inventor: I	AN A. HARDING				
Inventor's signature			Date: 8	-9-06.	
State of California)				
County of San Mateo) ss.				
On Hugust 9 Ian A. Harding, person whose name executed the same instrument the person	onally known to me is subscribed to the in his/her/their autho	(or proved to me of within instrument orized capacity(ise	n the basis of sati t and acknowled K and that by hi	sfactory evidence ged to me that h s /her/their signate	e) to be the e/ she/they ure on the
WITNESS my hand	and official seal.				* * · · · · · · · · · · · · · · · · · ·
CHER COM HOTARY SAN	YL R. GOMEZ MA # 1409640 PUBLIC • CALIFORNIA MATEO COUNTY	·· <u> </u>	Mery L Notary F	Q. X n	wey.

Name of inventor: JOHN VAN CAMP Inventor's signature Date: 97 2006
State of California)) ss.
County of San Mateo)
On September , 2006 before me, Cheryl R. Gomez, Notary Public, personally appeared John Van Camp, 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/she/they executed the same in his/her/their authorized capacity(iss), and that by his/her/their 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. # 1408640 NOTATY PUBLIC & CALIFORNIA SAN MATEO COUNTY SAN MATEO COUNTY

Name of inventor: ALEXAN Inventor's signature	der dromarets Duspaid	Date:	9/1/06	<u></u>
State of California)) ss. County of San Mateo)				
On September 7 Alexander Dromaretsky, person be the person whose name is sexecuted the same in his/her instrument the person or the same in his/her instrument the person of the same in his/her instrument the same in his/her instrument the same in	onally known to me (or ubscribed to the within Their authorized capa	proved to me on the instrument and activity (i) and that	ne basis of satisfactory knowledged to me tha by his/h er/their sigr	y evidence) to at he/ she/they nature on the
WITNESS my hand and offic	ial seal.			
CHERYL R. GO COMM. # 14096 NOTARY PUBLIC COM	MEZ }	Cheryl	O. Lonev otary Public)

	Case No. 5621
Name of inventor: SERGEY V. ERMAKOV	
Inventor's signature S. Emans	Date: Sept. 7, 2006
State of California)	
) ss.	
County of San Mateo)	
On September 7, 2006 before me, Cheryl R Sergey V. Ermakov, personally known to me (or proved to the person whose name is subscribed to the within instrume executed the same in his/her/their authorized capacity(instrument the person(b), or the entity upon behalf of which	me on the basis of satisfactory evidence) to be tent and acknowledged to me that he/she/they s), and that by his/her/their-signature on the
WITNESS my hand and official seal.	
CHERYL R. GOMEZ COMM. # 1409640 NOTANY PUBLIC - CALIFORMA SAM MATED COUNTY COMM. Exp. APRIL 6, 2007	Notary Public

Name of inventor: MARK F. OLDHAM
Inventor's signature Date: 6/15/06.
State of California)
) ss. County of San Mateo)
On August 15, 2006 before me, Cheryl R. Gomez, Notary Public, personally appeared Mark F. Oldham, 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/she/they executed the same in his/her/their authorized capacity() and that by his/her/their 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.
CHERYLR. GOMEZ COMM. # 1400840 HOTARY PUBLIC COUNTY SAN MATEO COUNTY

Name of inventor: JOY ROY	
Inventor's signature	Date:
State of California)	
County of SANTA CLARA)	
On 9 5 4 , 2006 before me, C+	18TNA J PATEL-Nony AUS
personally appeared <u>Joy Roy</u> , personally known to me (of evidence) to be the person whose name is subscribed to the w	r proved to me on the basis of satisfactory
he/she'they executed the same in his/her/their authorized car on the instrument the person(s), or the entity upon behalf	pacity(ies), and that by his/heattheir signature
instrument.	,,
WITNESS my hand and official seal.	
CHETNA J. PATEL COMM. NO. 1517473 NOTARY PUBLIC - CALIFORNIA SANTA CLARA COUNTY COMM. EXPIRES OCT. 30, 2008	Notary Public .

Name of inventor: MARYAM SHARIATI
Inventor's signature Mayan Suanal Date: 9/8/2006.
State of California)
) ss.
County of San Mateo)
On September 2, 2006 before me, Cheryl R. Gomez, Notary Public, personally appeared Maryam Shariati, 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 Fe/she/their authorized capacity(less), and that by he/her/their signature on the instrument the person(x), or the entity upon behalf of which the person(x) acted, executed the instrument
WITNESS my hand and official seal.
.0.
CHERYL R. GOMEZ COMM. # 1409840 Notary Public • CALFORNIA S SAN MATEO COUNTY Comm. Exp. APRIL 6, 2007

Name of inventor: UMBERTO ULMANELLA
Inventor's signature Wales Man Date: 8/10/2006.
State of California)) ss. County of San Mateo)
On
WITNESS my hand and official seal.
CHERYL R. GOMEZ COMM. # 1409840 Notary Public Notary Public