

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6546149

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>SEQUENCE:</b>	3	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	BIOTROVE CORPORATION	12/17/2010
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	LIFE TECHNOLOGIES CORPORATION	
<b>Street Address:</b>	5823 NEWTON DRIVE	
<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>
	Application Number:	16119327
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(760)476-6048	
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<b>Email:</b>	Patentdocketing@thermofisher.com	
<b>Correspondent Name:</b>	LIFE TECHNOLOGIES CORPORATION	
<b>Address Line 1:</b>	5823 NEWTON DRIVE	
<b>Address Line 4:</b>	CARLSBAD, CALIFORNIA 92008	
<b>ATTORNEY DOCKET NUMBER:</b>	LT00119CON4	
<b>NAME OF SUBMITTER:</b>	CHERI GOMEZ	
<b>SIGNATURE:</b>	/Cheri Gomez/	
<b>DATE SIGNED:</b>	02/10/2021	
<b>Total Attachments: 8</b>		
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## ASSIGNMENT

This ASSIGNMENT is between BIOTROVE CORPORATION, a Delaware corporation with a place of business at 5791 Van Allen Way, Carlsbad, CA 92008, and LIFE TECHNOLOGIES CORPORATION, a Delaware corporation having a place of business at 5791 Van Allen Way, Carlsbad, CA 92008.

WHEREAS, BIOTROVE CORPORATION is the owner of the entire right, title and interest to the inventions described in the United States Patent Applications, and United States Patents obtained therefor and thereon, listed in Attachment 1 hereto;

AND WHEREAS, LIFE TECHNOLOGIES CORPORATION desires to acquire from BIOTROVE CORPORATION the entire right, title and interest in and to said inventions and said applications for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon;

NOW, THEREFORE, for valuable consideration received, the receipt of which is hereby acknowledged, the said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto the assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, applications for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefore and thereon, and in and to any and all divisions, continuations, and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Union for the Protection of Industrial Property, the same to be held and enjoyed by the said assignee, for its own use and behoof and the use and behoof of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, the said assignors hereby covenant and agree to and with the assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, the said assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that the said

assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

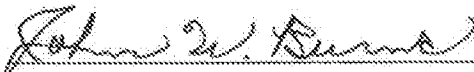
AND for the same consideration, the said assignors hereby covenant and agree to and with the said assignee, its successors, legal representatives and assigns, that the said assignors will, whenever counsel of the said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, 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, 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 inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of the said assignee, its successors, legal representatives and assigns.

AND the said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to the said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use and behoof of the said assignee, its successors, legal representatives and assigns.

IN WITNESS WHEREOF, BIOTROVE CORPORATION has caused this Assignment to be executed by a duly authorized representative thereof.

BIOTROVE CORPORATION

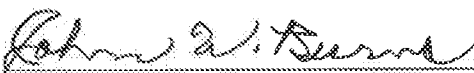
Date: 17 Dec 10

By:   
Name: John W. Burns  
Title: Sr. Director, Integrations & Legal  
Systems

SIGNATURE of Applicant or Assignee of Record

LIFE TECHNOLOGIES CORPORATION

Date: 17 Dec 10

By:   
Name: John W. Burns  
Title: Sr. Director, Integrations & Legal  
Systems

# ATTACHMENT 1

LT00114	Multi-through Hole Testing Plate for High Throughput Screening	09/272,122
LT00114 AU	Multi-through Hole Testing Plate for High Throughput Screening	37583/00
LT00114 EP	Multi-through Hole Testing Plate for High Throughput Screening	916485.6
LT00114 MX	Multi-through Hole Testing Plate for High Throughput Screening	PA/a/2001/009361
LT00114 NZ	Multi-through Hole Testing Plate for High Throughput Screening	513390
LT00114 PCT	Multi-through Hole Testing Plate for High Throughput Screening	PCT/US00/07140
LT00114 RU	Multi-through Hole Testing Plate for High Throughput Screening	2001128215
LT00114.1 CON	Multi-through Hole Testing Plate for High Throughput Screening	09/471,852
LT00114.2 CIP	Multi-through Hole Testing Plate for High Throughput Screening	09/528,085
LT00114.3 CON	Multi-through Hole Testing Plate for High Throughput Screening	09/970,578
LT00114.4 CON	Multi-through Hole Testing Plate for High Throughput Screening	10/223,893
LT00114.5 DIV	Multi-through Hole Testing Plate for High Throughput Screening	10/969,104
LT00114.6 DIV	Multi-through Hole Testing Plate for High Throughput Screening	11/378,735
LT00116	Voltage-aided transfer pins	10/227,179
LT00116 EP	Capillary Action Transfer Pins	3793336.3
LT00116 PCT	Capillary Action Transfer Pins	PCT/US03/26441
LT00116.1 DIV	Microfluidic Transfer Pins	12/148,416
LT00117	Assay Apparatus and Method Using Microfluidic Arrays	10/744,580
LT00117 AU 3	Thermal Cycler for Microfluidic Array Assays	2006292354
LT00117 CA	Assay Apparatus and Method Using Microfluidic Arrays	2,521,999
LT00117 CA 3	Thermal Cycler for Microfluidic Array Assays	2,621,449

LT00117 EP	Assay Apparatus and Method Using Microfluidic Arrays	3810080.6
LT00117 EP 3	Thermal Cycler for Microfluidic Array Assays	6814869.1
LT00117 JP 2	Improved Selective Ligation and Amplification Assay	2006-544034
LT00117 JP 3	Thermal Cycler for Microfluidic Array Assays	2008-531414
LT00117 PCT	Assay Apparatus and Method Using Microfluidic Arrays	PCT/US03/41356
LT00117 PCT 2	Improved Selective Ligation and Amplification Assay	PCT/US04/41480
LT00117 PCT 3	Thermal Cycler for Microfluidic Array Assays	PCT/US06/36299
LT00117 PRO	High-Density Microfluidic Thermal Cycling	60/434,988
LT00117 PRO 2	High-Density Microfluidic Thermal Cycling with Stackability	60/461,556
LT00117 PRO 3	Immobilized Probe Nanotiter Array	60/461,559
LT00117 PRO 4	Selective Ligation and Amplification Assay	60/528,461
LT00117 PRO 5	Selective Ligation and Amplification Assay	60/531,726
LT00117 PRO 6	Thermal Cycler for Microfluidic Array Assays	60/610,033
LT00117.1	Selective Ligation and Amplification Assay	11/010,201
LT00117.2 CIP	Assay Apparatus and Method Using Microfluidic Arrays	11/227,425
LT00117.3 DIV	Thermal Cycling Apparatus and Method	12/243,503
LT00117.4 DIV	Thermal Cycling Apparatus and Method	12/245,027
LT00117.5 CON	Thermal Cycler for Microfluidic Array Assays	12/642,715
LT00118	Coating Process for Microfluidic Sample Arrays	11/198,882
LT00118 CA	Method and System for Registering Dispenser Array Location	2,575,350
LT00118 EP	Method and System for Registering Dispenser Array Location	5818193.4
LT00118 JP	Coating Process for Microfluidic Sample Arrays	2007-525058

LT00118 PCT	Coating Process for Microfluidic Sample Arrays	PCT/US05/28048
LT00118 PRO	Coating Process for Microfluidic Sample Arrays	60/599,217
LT00118 PRO 2	Calibration of Dispensers Relative to a Microfluidic Array	60/608,231
LT00119	Nanoliter Array Loading	11/078,196
LT00119 AU	Nanoliter Array Loading	2005222618
LT00119 CA	Nanoliter Array Loading	2,559,171
LT00119 EP	Nanoliter Array Loading	5725434.4
LT00119 JP	Nanoliter Array Loading	2007-503065
LT00119 PCT	Nanoliter Array Loading	PCT/US05/08248
LT00119 PRO	Nanoliter Array Loading	60/552,267
LT00119 PRO 2	Microfluidic Array Loading	60/607,838
LT00119 PRO 3	Nanoliter Array Loading	60/627,334
LT00120 AU	Apparatus for Assay, Synthesis and Storage, and Methods of Manufacture, Use, and Manipulation Thereof	2006279763
LT00120 CA	Apparatus for Assay, Synthesis and Storage, and Methods of Manufacture, Use, and Manipulation Thereof	2,619,250
LT00120 EP	Apparatus for Assay, Synthesis and Storage, and Methods of Manufacture, Use, and Manipulation Thereof	6801354.9
LT00120 JP	Apparatus for Assay, Synthesis and Storage, and Methods of Manufacture, Use, and Manipulation Thereof	2008-526264
LT00120 PCT	Apparatus for Assay, Synthesis and Storage, and Methods of Manufacture, Use, and Manipulation Thereof	PCT/US06/31534
LT00120 PRO	Chip-based System and Apparatus for Screening, Biomarker Studies and Admet Strategies	60/707,501
LT00122	Apparatus for Assay, Synthesis and Storage, and Methods of Manufacture, Use, and Manipulation Thereof	09/975,496

LT00122 CA	Apparatus for Assay, Synthesis and Storage, and Methods of Manufacture, Use, and Manipulation Thereof	2,425,476
LT00122 DIV JP	Molecular Synthesis and Screening in an Array of Through-Holes	2008-222576
LT00122 JP	Apparatus for Assay, Synthesis and Storage, and Methods of Manufacture, Use, and Manipulation Thereof	2002-533997
LT00122 PCT	Apparatus for Assay, Synthesis and Storage, and Methods of Manufacture, Use, and Manipulation Thereof	PCT/US01/31770
LT00122 PRO	Molecular Synthesis and Screening in an Array of Through-holes	60/239,538
LT00122 PRO 2	Molecular Synthesis and Screening in an Array of Through-holes	60/268,894
LT00122 PRO 3	Molecular Synthesis and Screening in an Array of Through-holes	60/284,710
LT00122.1 DIV	Apparatus for Assay, Synthesis and Storage, and Methods of Manufacture, Use, and Manipulation Thereof	10/315,549
LT00122.2 DIV	Apparatus for Assay, Synthesis and Storage, and Methods of Manufacture, Use, and Manipulation Thereof	10/315,832
LT00122.3 CIP	Apparatus for Assay, Synthesis and Storage, and Methods of Manufacture, Use, and Manipulation Thereof	11/503,401
LT00123 CN	Devices and Methods for Thermally-Mediated Chemical Reactions	
LT00123 EP	Devices and Methods for Thermally-Mediated Chemical Reactions	09 716 536.9
LT00123 PCT	Devices and Methods for Thermally-Mediated Chemical Reactions	PCT/US09/36324
LT00123 PRO	High Speed Thermal Cyclers for the Open Array	61/034,321
LT00123 US	Devices and Methods for Thermally-Mediated Chemical Reactions	12/921,144
LT00124 CN	System for the Detection of a Biological Pathogen and Use Thereof	200880127069.3
LT00124 EP	System for the Detection of a Biological Pathogen and Use Thereof	8873532.9
LT00124 IN	System for the Detection of a Biological Pathogen and Use Thereof	5046/DELNP/2010

LT00124 PCT	System for the Detection of a Biological Pathogen and Use Thereof	PCT/US08/014042
LT00124 PRO	System for the Detection of a Biological Pathogen and Use Thereof	61/015,555
LT00124 US	System for the Detection of a Biological Pathogen and Use Thereof	12/809,568
LT00125 PCT	System for Identification of Multiple Nucleic Acid Targets in a Single Sample and Use Thereof	PCT/US09/60848
LT00125 PRO	System for Identification of Multiple Nucleic Acid Targets in a Single Sample and Use Thereof	61/105,701