PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2902155

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HYCLONE LABORATORIES, INC.	03/21/2014

RECEIVING PARTY DATA

Name:	LIFE TECHNOLOGIES CORPORATION	
Street Address:	5791 VAN ALLEN WAY	
City:	CARLSBAD	
State/Country:	CALIFORNIA	
Postal Code:	92008	

PROPERTY NUMBERS Total: 54

Property Type	Number
Patent Number:	5799830
Patent Number:	5941635
Patent Number:	7153021
Patent Number:	7278780
Patent Number:	7284579
Patent Number:	7588161
Patent Number:	7992598
Patent Number:	8272410
Patent Number:	7225824
Patent Number:	8603805
Patent Number:	7879599
Patent Number:	8124403
Patent Number:	7487688
Patent Number:	7878079
Patent Number:	7938454
Patent Number:	7168459
Patent Number:	8455242
Patent Number:	8641314
Patent Number:	8506198
Patent Number:	8608369
Patent Number:	7384783
50285558	

PATENT

REEL: 033188 FRAME: 0642

502855558

Property Type	Number
Patent Number:	7682067
Patent Number:	7901934
Patent Number:	8187867
Patent Number:	8623640
Application Number:	14094541
Application Number:	13013479
Application Number:	12597126
Application Number:	13900383
Application Number:	14088140
Application Number:	13162248
Application Number:	12986701
Application Number:	14075933
Application Number:	13659616
Application Number:	14131872
Application Number:	13631448
Application Number:	13449101
Application Number:	13251828
Application Number:	13849361
Application Number:	13686400
Application Number:	13970387
Application Number:	61928091
Application Number:	14109684
PCT Number:	US1261708
PCT Number:	US1328059
PCT Number:	US1246095
PCT Number:	US1258086
PCT Number:	US1256917
PCT Number:	US1256929
PCT Number:	US1331608
PCT Number:	US1327819
PCT Number:	US1332528
PCT Number:	US1371917
PCT Number:	US1355618

CORRESPONDENCE DATA

Fax Number: (801)328-1707

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: 801.533.9800

Email: dwilson@wnlaw.com

Correspondent Name: DANA L. TANGREN

Address Line 1: 60 EAST SOUTH TEMPLE, SUITE 1000

Address Line 4: SALT LAKE CITY, UTAH 84111

ATTORNEY DOCKET NUMBER:	11398.187
NAME OF SUBMITTER:	DANA L. TANGREN
SIGNATURE:	/dana I. tangren/
DATE SIGNED:	06/17/2014

Total Attachments: 8

source=11398.187 US Patents from HyClone to Life Tech#page1.tif source=11398.187 US Patents from HyClone to Life Tech#page2.tif source=11398.187 US Patents from HyClone to Life Tech#page3.tif source=11398.187 US Patents from HyClone to Life Tech#page4.tif source=11398.187 US Patents from HyClone to Life Tech#page5.tif source=11398.187 US Patents from HyClone to Life Tech#page6.tif source=11398.187 US Patents from HyClone to Life Tech#page7.tif source=11398.187 US Patents from HyClone to Life Tech#page8.tif

ASSIGNMENT

In consideration of Ten Dollars (\$10.00), and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the undersigned, **HyClone Laboratories, Inc., a Utah corporation having** a place of business at 925 West 1800 South, Logan, Utah 84321 ("Assignor"), and which is the owner of the entire right, title and interest in and to all patents and patent applications identified on **Schedule A attached hereto** and is a joint owner of the patents and patent application identified on **Schedule B attached hereto** (the patents and patent applications listed in attached Schedule A and **Schedule B hereinafter being cumulatively referred to as the "Patents"**);

Hereby sells, assigns and transfers to Life Technologies Corporation, which has a place of business at 5791 Van Allen Way, Carlsbad, CA 92008 ("Assignee"), and its successors and assigns, Assignor's entire right, title, dominion and interest in and to the Patents and in and to any and all inventions that are disclosed and claimed in the Patents, and in and to any and all inventions that are disclosed but not claimed in the Patents and in and to any and all continuation, continuation-in-part, divisional, substitute, reexamination, renewal, and reissue applications of any of the Patents and in and to all US, International, and foreign patent applications that claim priority to any of the Patents and in and to all other applications for a patent or patents or other related property rights directed to inventions disclosed in the Patents and in the right to sue for and collect damages for past, present and future infringement of any of the Patents;

Authorizes and requests the Director of Patents of the United States of America to issue to the Assignee, its successors, assigns and legal representatives, in accordance with this assignment, any and all patents on any inventions disclosed or claimed in the aforementioned patent applications;

Agrees that the Assignee may apply for and receive patents or rights of any other kind for inventions described in the above-referenced patents and patent applications in any jurisdiction and may claim, in applications for foreign patents or other rights, the priority of the aforesaid patent application(s) under the provisions of the International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Patent Convention or under any other available international agreement; and

Represents to the Assignee, its successors, assigns and legal representatives that the Assignor has not and shall not execute any writing or do any act whatsoever that conflicts with this Assignment and that, when requested, without charge to, but at the expense of, Assignee, its successors, assigns and legal representatives, the Assignor will carry out in good

faith the intent and purpose of this Assignment, and the undersigned or the undersigned's executors or administrators will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications or other documents on any and all inventions disclosed or claimed in the Patents; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to the Assignee, its successor, assigns and representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings; and generally do everything possible that the Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and for vesting title to said inventions and all applications for patents on said inventions, in the Assignee, its successors, assigns and legal representatives.

[THIS SPACE IS INTENTIONALLY LEFT BLANK.]

HyClone Laboratories, Inc.

Date:

March 21, 2014

By:

Name: Maura A. Spellman Title: Assistant Treasurer

Accepted by:

Date:

March 21, 2014

Life Technologies Corporation

By: __

Name: Maura A. Spellman Title: Assistant Treasurer

Commonwealth of Massachusetts County of Middlesex

SS

On this the day of March, 2014, before me, Kimberlee A. Holliday, the undersigned Notary Public, personally appeared Maura A. Spellman, proved to me through satisfactory evidence of identification, which was based on personal knowledge, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that she signed it voluntarily for its stated purpose as Assistant Treasurer for Life Technologies Corporation, a Delaware corporation.

Before me.

Signature of Notary Public

Kimberlee A. Holliday Printed Name of Notary

My Commission Expires: January 18, 2019

KIMBERLEE A. HOLLIDAY
Notary Public
Commonwealth of Massachusetts
My Commission Expires
January 18, 2019

Commonwealth of Massachusetts County of Middlesex

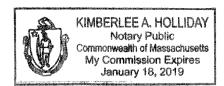
On this the day of March, 2014, before me, Kimberlee A. Holliday, the undersigned Notary Public, personally appeared Maura A. Spellman, proved to me through satisfactory evidence of identification, which was based on personal knowledge, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that she signed it voluntarily for its stated purpose as Assistant Treasurer for Hyclone Laboratories, Inc., a Utah corporation.

Before me,

Signature of Notary Public

Kimberlee A. Holliday Printed Name of Notary

My Commission Expires: January 18, 2019



Schedule A

DIAMS Docket		A self-self-self-self-self-self-self-self-	Application	Patent Number	GrantDate
Number	Title	Application Number	Date	ratent number	Glanibale
9752US1/NAT	Pressure Vessel Access Port	08/744418	11/8/1996	5799830	9/1/1998
9754US1/NAT	Mixing Block for Resuspension System	09/009287	1/20/1998	5941635	8/24/1999
9756US1/NAT	Container systems for mixing fluids with a magnetic stir bar	10/797159	3/10/2004	7153021	12/26/2006
9756US2/NAT	Container systems for mixing fluids with a magnetic stir bar	11/390729	3/28/2006	7278780	10/9/2007
9762US1/NAT	Fluid Storage and Dispensing Bins	10/810156	3/26/2004	7284579	10/23/2007
9762US2/NAT	Fluid Dispensing Bins	11/865504	10/1/2007	7588161	9/15/2009
9762US3/NAT	Fluid Bin Assembly with Hoist	12/559359	9/14/2009	7992598	8/9/2011
9762US4/NAT	Fluid Bin Assembly with Hoist	13/183060	7/14/2011	8272410	9/25/2012
9780US1/NAT	Dip Tube Anchor Assembly and Related Container	10/954090	9/29/2004	7225824	6/5/2007
9782US5/NAT	Gas Spargers and Related Container Systems	11/385541	3/20/2006	8603805	12/10/2013
9782US6/NAT	Tube Ports and Related Container Systems Tube Ports and Related	11/385629	3/20/2006	7879599	2/1/2011
9782US7/NAT	Container Systems Sampling Ports and Related	12/983606	1/3/2011	8124403	2/28/2012
9813US1/NAT	Container Systems	11/385626	3/20/2006	7487688	2/10/2009
9813US2/NAT	Sampling Ports and Related Container Systems	12/357817	1/22/2009	7878079	2/1/2011
9818US1/NAT	Sterile Connector Systems	11/739433	4/24/2007	7938454	5/10/2011
9820US1/PCT	Sterile Connector Systems	12/597126	4/23/2008		
9829US1/NAT	Feed Bags and Methods of Use	10/402250	3/28/2003	7168459	1/30/2007
9836US1/NAT	Mixing System with Condenser	12/710127	2/22/2010	8455242	6/4/2013
9841US1/NAT	Quick Coupling for Drive Shaft	12/697824	2/1/2010	8641314	2/4/2014
9845US1/NAT	Self Aligning Coupling for Mixing System	12/697771	2/1/2010	8506198	8/13/2013
9851US1/NAT	Methods and Apparatus for Heating and Mixing Fluids	12/986734	1/7/2011	8608369	12/17/2013
11111US1/PCT	Manifold System	14/131872	7/10/2012		
11111WO1/PCT	Manifold System	PCT/US2012/046095	7/10/2012		

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Schedule A

DIAMS Docket			Application		
Number	Title	Application Number	Date	Patent Number	GrantDat
	FILTER SYSTEMS FOR				
	SEPARATING MICROCARRIERS				
	FROM CELL CULTURE			gradien in die	
13512WO1/PCT	· ISOLUTIONS	PCT/US2012/056917	9/24/2012		
	FILTER SYSTEMS FOR				
	SEPARATING MICROCARRIERS			:	
	FROM CELL CULTURE	No			
13512US1/NAT	SOLUTIONS	13/449101	4/17/2012		
	DISPOSABLE PLUG AND	and the state of t		:	
	SENSOR FITTINGS FOR				
13529US1/NAT	BIOREACTOR BAGS	13/251828	10/3/2011		
	DISPOSABLE PLUG AND				
	SENSOR FITTINGS FOR				
13529W01/PCT	BIOREACTOR BAGS	PCT/US2012/056929	9/24/2012		
	CONTAINER WITH FILM				
13710US1/NAT	SPARGER	13/631448	9/28/2012		
	CONTAINER WITH FILM				
13710WO1/PCT	SPARGER	PCT/US2012/058086	9/28/2012	22-2-1	dek i Nego Aks
	FLUID MIXING SYSTEMS AND				
14576US1/NAT	ADJUSTABLE IMPELLER	13/659616	10/24/2012		
	FLUID MIXING SYSTEMS AND				
14576WO1/PCT	ADJUSTABLE IMPELLER	PCT/US2012/061708	10/24/2012		
	SYSTEMS AND CONTAINERS				
15835WO1/PCT	FOR STERILIZING A FLUID	PCT/US2013/028059	2/27/2013		
	MIXING SYSTEM WITH DRIVE				
15922US1/NAT	SHAFT STEADY SUPPORT	13/849361	3/22/2013		
	FLUID MIXING SYSTEM WITH				
	FLEXIBLE DRIVE LINE AND				
15980W01/PCT	FOLDABLE IMPELLER	PCT/US2013/031608	3/14/2013		1 (1) (1) (1) (1) (1) (1) (1) (1
	METHODS AND APPARATUS				
	FOR GAS STREAM MASS				
16010W01/PCT	TRANSFER WITH A LIQUID	PCT/US2013/032528	3/14/2013		sett.
			372712023		
	FLUID MIXING SYSTEM WITH				
L6352WO1/PCT	TILTABLE SUPPORT HOUSING	PCT/US2013/27819	2/26/2013		
	FLUID MANIFOLD SYSTEM		2/20/2023		
	WITH ROTATABLE PORT				
16690US1/NAT	ASSEMBLY	13/970387	8/19/2013		
	FLUID MANIFOLD SYSTEM	20/0/00/	0/23/2023		
1	WITH ROTATABLE PORT				
6690W01/PCT		PCT/US2013/055618	8/19/2013		
	LOAD CELL LOCKOUTS AND	1.01/03/073/033019	0/13/2013		
	RELATED FLUID DISPENSING				
TATELIES ALAT		12/C0C400	11/27/2012		
7075US1/NAT	SYSTEMS LOAD CELL LOCKOUTS AND	13/686400	11/27/2012		
	e e te te te avail te			No.	
707811104 /200	RELATED FLUID DISPENSING	nor li inna a lon a a a		new desirable and the second s	
7075WO1/PCT	SYSTEMS	PCT/US2013/071917	11/26/2013		
	REACTOR FOAM SENSOR				
	SYSTEMS AND METHODS OF		-	pasapolisiana.	
8743P1/NAT	USE	61/928091	1/16/2014		

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Schedule A

DIAMS Docket Number	Title	Application Number	Application Date	Patent Number	GrantDate
9782US9/NAT	Gas Spargers and Related Container Systems	14/094541	12/2/2013		
9813EP1/EPC	Sampling Ports and Related Container Systems	7251179.3	3/20/2007		
9813US3/NAT	Sampling Ports and Related Container Systems	13/013479	1/25/2011		
9836US2/NAT	METHODS FOR CONDENSING A HUMID GAS	13/900383	5/22/2013		
9836US3/NAT	HEAT EXCHANGER SYSTEM WITH FLEXIBLE BAG	14/088140	11/22/2013		
9839US1/NAT	Fluid Mixing System with Hangers	13/162248	6/16/2011		
9849US1/NAT	Methods and Apparatus for Mixing and Shipping Fluids	12/986701	1/7/2011		
9851US2/NAT	Methods and Apparatus for Heating and Mixing Fluids	14/075933	11/8/2013		

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DIAMS Docket Number	Title	Application Number	Application Date	Patent Number	GrantDate
9782US1/NAT	Stirred Tank Reactor System	11/112834	4/22/2005	7384783	6/10/2008
9782US2/NAT	Mixing Systems and Related Mixers	11/379535	4/20/2006	7682067	3/23/2010
9782US3/NAT	Probe Connector Assembly and Method of Use	12/116050	5/6/2008	7901934	3/8/2011
9782US4/NAT	Probe Connector Assembly and Method of Use	13/014575	1/26/2011	8187867	5/29/2012
9782US8/NAT	Stirred Tank Reactor Systems and Method of Use	13/443391	4/10/2012	8623640	1/7/2014
9782US10/NAT	Stirred Tank Reactor Systems and Method of Use	14/109684	12/17/2013	entered to the Control of the Contro	

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PATENT REEL: 033188 FRAME: 0652

RECORDED: 06/17/2014