PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4904204

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MICHAEL J. MCPHAUL	04/06/2018
JAMES J. DEVLIN	04/02/2018
DOV SHIFFMAN	04/02/2018
CARMEN TONG	04/02/2018

RECEIVING PARTY DATA

Name:	QUEST DIAGNOSTICS INVESTMENTS LLC
Street Address:	3 GIRALDA FARMS
Internal Address:	C/O JOEL S. WHITE
City:	MADISON
State/Country:	NEW JERSEY
Postal Code:	07940

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15942188

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.

Phone: 610.631.4277

Email: Joel.S.White@questdiagnostics.com

Correspondent Name: QUEST DIAGNOSTICS INVESTMENTS LLC

Address Line 1:3 GIRALDA FARMSAddress Line 2:C/O JOEL S. WHITE

Address Line 4: MADISON, NEW JERSEY 07940

ATTORNEY DOCKET NUMBER:	034827-3631
NAME OF SUBMITTER:	JOEL S. WHITE
SIGNATURE:	/Joel S. White/
DATE SIGNED:	04/06/2018
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Total Attachments: 7

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PATENT REEL: 045465 FRAME: 0371

PATENT ASSIGNMENT		Docket Number 034827-3631		
WHEREAS, the undersigned:				
1. SHIFFMAN, Dov 557 Hilbar Ln. 5866 Turnberry Dr. Palo Alto, CA 94303 Dublin, CA 94568	3. DEVLIN, James J. 1146 Upper Happy Valley Road Lafayette, CA 9454	4. McPHAUL, Michael J. 26748 Calle Juanita Capistrano Beach, CA 9 92624		
(hereinafter "Inventor(s))," have invented certain new and useful improvements in METHODS FOR QUANTITATION OF INSULIN AND C-PEPTIDE				
for which a United States patent application is executed on even date herewith; for which Application No. 15/942,188 was filed on March 30, 2018 in the United States Patent Office; for which Application No. was filed on in the U.S. Receiving Office of the Patent Cooperation Treaty; for which Application No. was filed on in the Patent Office; and/or for which an application was filed upon which a United States Patent issued on, as U.S. Patent No (hereinafter "Application(s)").				
WHEREAS, QUEST DIAGNOSTICS INVESTMENTS LLC, a limited liability company of the State of Delaware, having a place of business at 3 Giralda Farms, Madison, New Jersey 07940, (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said Application(s) and the inventions disclosed therein, and in and to all embodiments of the inventions, heretofore conceived, made or discovered, whether jointly or severally, by said Inventor(s) (hereinafter collectively referred to as "Inventions"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter "Patent(s)") thereon granted in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty.				

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor(s) to have been received in full from said Assignee:

- 1. Said Inventor(s) do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said Inventions, including the right to claim priority to said Inventions; (b) in and to all rights to all United States and corresponding non-United States patent applications and Patent(s), including those filed under the Paris Convention for the Protection of Industrial Property, The Patent Cooperation Treaty or otherwise; (c) in and to any and all applications filed and any and all Patent(s) granted on said Inventions in the United States, in any foreign country, or under any international convention, agreement, protocol, or treaty, including each and every application filed and any and all Patent(s) granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said Application(s); and (d) in and to each and every reissue, reexamination, or extensions of any of said Patent(s).
- 2. Said Inventor(s) hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty. Such cooperation by said Inventor(s) shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any applications covering said Inventions; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Inventions; (d) for filing and prosecuting applications for reissuance of any said Patent(s); (e) for interference or other priority proceedings involving said Inventions; and (f) for legal proceedings involving said Inventions and any applications therefor and any Patent(s) granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor(s) in providing such cooperation shall be paid for by said Assignee.
- 3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor(s), their respective heirs, legal representatives and assigns.
- 4. Said Inventor(s) hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.
- 5. Said Inventor(s) hereby request that any Patent(s) issuing in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty, be issued in the name of the Assignee, or its successors and assigns, for the sole use of said Assignee, its successors, legal representatives and assigns.

Page 1 of 2

		PATENT ASSIGNMENT	Docket Number 034827-3631		
	IN WITNESS WHEREOF, said Inventor(s) have executed and delivered this instrument to said Assignee as of the dates written below:				
Date: _		Dov SHIFFMAN			
Date: _		Carmen TONG			
Date: _		James J. DEVLIN			
Date:	1/6/2018	Michael J. McPHAUL			
Date: _					
Date: _					
Date: _					
Date: _					

	PATENT ASSIGNMENT	Docket Number 034827-3631
IN WITNE below:	SS WHEREOF, said Inventor(s) have executed and delivered this instruction	rument to said Assignee as of the dates written
Date:	Dov SHIFFMAN	
Date:	Carmen TONG	
Date: 4-2-18	James J. DEVLIN	
Date:	Michael J. McPHAUL	
Date:		
Date:		

Page 2 of 2

	PATENT ASSIGNMENT	······································		Docket Ni	umber 034827-3631
WHEREAS, the undersigned					amost optical and t
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(hereinafter "Inventor(s))," h	ave invented certain new and usefi				
•	METHODS FOR QUANT	ITATI	ON OF INSULIN A	ND C-PEP	TIDE
for which Appli	ted States patent application is execution No. 15/942,188 was filed on cation No. was filed on cation No. was filed on plication was filed upon which a U.	Marc in t	h 30, 2018 in the Unit the U.S. Receiving Of	ed States Pa fice of the l	Patent Cooperation Treaty;
interest in and to said Applic conceived, made or discovere in and to any and all patents,	NOSTICS INVESTMENTS LLC, Madison, New Jersey 07940, (here ation(s) and the inventions disclosed, whether jointly or severally, by inventor's certificates and other founder any international convention	emane ed ther said l	r "Assignee"), is desired, and in and to all on the and in and to all on the angle of the angle	ous of acquembodimen	airing the entire right, title and
	E. in consideration of good and va				said Inventor(s) to have been
corresponding non-United St Industrial Property, The Pate granted on said Inventions in treaty, including each and ev	tor(s) do hereby sell, assign, transfuling the right to claim priority to states patent applications and Patent of Cooperation Treaty or otherwise the United States, in any foreign cary application filed and any and a in-part of any of said Application	aid inv i(s), ind se; (c) i country ill Pate	entions; (b) in and to cluding those filed un- in and to any and all a t, or under any interna nt(s) granted on any a	all rights to ler the Pari pplications tional conv	all United States and s Convention for the Protection of filed and any and all Patent(s) ention, agreement, protocol, or
2. Said Inventually fullest extent the right, title a agreement, protocol, or treaty giving of testimony, execution deemed necessary or desirable prosecuting any applications applications covering said Information or other priority proceedings therefor and any Patent(s) green cancellation proceedings, principles.	tor(s) hereby covenant and agree to not interest herein conveyed in the r. Such cooperation by said Inven- m of petitions, oaths, specification le by said Assignee (a) for perfecti covering said Inventions; (c) for fi- ventions; (d) for filing and prosecu- involving said Inventions; and (f) anted thereon, including without li- ority contests, public use proceeding entor(s) in providing such coopera-	United tor(s) s s, deck ng in s illing ar uting a for leg mitationgs, in	States, foreign count thall include prompt parations or other paper aid Assignee the right of prosecuting subsuit optications for reissua al proceedings involved on reissues and reexant fringement actions and	ries, or und- roduction of rs, and other, title and in te, division nee of any a ing said Invalinations, of d court actions.	er any international convention, of pertinent facts and documents, or assistance all to the extent interest herein conveyed; (b) for nal, continuing or additional said Patent(s); (e) for interference ventions and any applications prossition proceedings.
legal representatives, and sha	Il be binding upon said Inventor(s), their	respective heirs, lega	l representa	~
4. Said Inventont contract, or understanding in	tor(s) hereby warrant and represen conflict herewith.	t that t	hey have not entered a	and will not	t enter into any assignment,
international convention, agr	tor(s) hereby request that any Pater eement, protocol, or treaty, be issu essors, legal representatives and a	ed in t	he name of the Assign	ates, foreig	n countries, or under any uccessors and assigns, for the sole

Page 1 of 2

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IN WITNESS WHEREOF, said Inventor(s) have executed and delivered this instrument to said Assignce as of the dates written below:				
Date: <u>4-2-18</u>	Dov SHIFFMAN			
Date:	Carmen TONG			
Date:	James J. DEVLIN			
Date:	Michael J. McPHAUL			
Date:				
Date:				

Docket Number 034827-3631 PATENT ASSIGNMENT WHEREAS, the undersigned: McPHAUL, Michael J. 3. DEVLIN, James J. 2. TONG, Carmen 1. SHIFFMAN, Dov 26748 Calle Juanita 1146 Upper Happy 5866 Tumberry Dr. 557 Hilbar Ln. Capistrano Beach, CA Valley Road Dublin, CA 94568 Palo Alto, CA 94303 92624 Lafayette, CA 94549 (hereinafter "Inventor(s))," have invented certain new and useful improvements in METHODS FOR QUANTITATION OF INSULIN AND C-PEPTIDE for which a United States patent application is executed on even date herewith; or which Application No. 15/942,188 was filed on March 30, 2018 in the United States Patent Office; for which Application No. ____ was filed on ____ in the U.S. Receiving Office of the Patent Cooperation Treaty; for which Application No. ____ was filed on ____ in the ____ Patent Office; and/or for which an application was filed upon which a United States Patent issued on _____, as U.S. Patent No. _____ (hereinafter "Application(s)"). WHEREAS, QUEST DIAGNOSTICS INVESTMENTS LLC, a limited liability company of the State of Delaware, having a place of business at 3 Giralda Farms, Madison, New Jersey 07940, (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said Application(s) and the inventions disclosed therein, and in and to all embodiments of the inventions, heretofore conceived, made or discovered, whether jointly or severally, by said Inventor(s) (hereinafter collectively referred to as "Inventions"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter "Patent(s)") thereon granted in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty. NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor(s) to have been received in full from said Assignee: Said Inventor(s) do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said Inventions, including the right to claim priority to said Inventions; (b) in and to all rights to all United States and

- 1. Said Inventor(s) do hereby sell, assign, transfer and convey unto said Assignee the entire right, the and interest (a) in and to said Inventions, including the right to claim priority to said Inventions; (b) in and to all rights to all United States and corresponding non-United States patent applications and Patent(s), including those filed under the Paris Convention for the Protection of Industrial Property, The Patent Cooperation Treaty or otherwise; (c) in and to any and all applications filed and any and all Patent(s) granted on said Inventions in the United States, in any foreign country, or under any international convention, agreement, protocol, or treaty, including each and every application filed and any and all Patent(s) granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said Application(s); and (d) in and to each and every reissue, reexamination, or extensions of any of said Patent(s).
- 2. Said Inventor(s) hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty. Such cooperation by said Inventor(s) shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any applications covering said Inventions; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Inventions; (d) for filing and prosecuting applications for reissuance of any said Patent(s); (e) for interference or other priority proceedings involving said Inventions; and (f) for legal proceedings involving said Inventions and any applications therefor and any Patent(s) granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor(s) in providing such cooperation shall be paid for by said Assignee.
- 3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor(s), their respective heirs, legal representatives and assigns.
- 4. Said Inventor(s) hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.
- 5. Said Inventor(s) hereby request that any Patent(s) issuing in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty, be issued in the name of the Assignee, or its successors and assigns, for the sole use of said Assignee, its successors, legal representatives and assigns.

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PATENT REEL: 045465 FRAME: 0377

	PATENT ASSIGNMENT	Docket Number 034827-3631
IN WITNE below:	SS WHEREOF, said Inventor(s) have executed and delivered this inst	rument to said Assignee as of the dates written
Date:	Dov SHIFFMAN	
Date: 4(2/20)	Carmen TONG	
Date:	James J. DEVLIN	
Date:	Michael J. McPHAUL	
Date:		
Date:		
Date:		

PATENT

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RECORDED: 04/06/2018 REEL: 045465 FRAME: 0378