PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2879633

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SCOTT E. WHITNEY	01/06/2014
STEPHANIE DE LOS RIOS	01/08/2014
SENAIT GHIRMAI	01/15/2014
ROLF MULLER	01/06/2014
VASCO LIBERAL	01/07/2014
STEVEN P. WILKINSON	01/07/2014

RECEIVING PARTY DATA

Name:	BIOMATRICA, INC.
Street Address:	5627 OBERLIN DRIVE
Internal Address:	SUITE 120
City:	SAN DIEGO
State/Country:	CALIFORNIA
Postal Code:	92121

PROPERTY NUMBERS Total: 1

Property Type	Number
PCT Number:	US1377290

CORRESPONDENCE DATA

Fax Number: (650)493-6811

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: 650-493-9300

Email: patentdocket@wsgr.com, callman@wsgr.com WILSON SONSINI GOODRICH & ROSATI **Correspondent Name:**

650 PAGE MILL ROAD Address Line 1:

Address Line 4: PALO ALTO, CALIFORNIA 94304-1050

ATTORNEY DOCKET NUMBER:	34157-712.601
NAME OF SUBMITTER:	CARROLL ALLMAN
SIGNATURE:	/Carroll Allman/
DATE SIGNED:	06/02/2014

Total Attachments: 6

PATENT

REEL: 033006 FRAME: 0989 502833037

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PATENT REEL: 033006 FRAME: 0990

PATENT ASSIGNMENT Docket Number .: 35147-712.601 WHEREAS, the undersigned: I. WHITNEY, Scott E. 2. DE LOS RIOS, Stephanie 3. GHIRMAI, Senait 7615 Canyon Point Lane 750 Kalamath Drive 5335 Repecho Drive, B102 San Diego, California 92126, USA Del Mar, California 92014, USA San Diego, California 92124, USA 4. MULLER, Rolf 5. LIBERAL, Vasco 6. WILKINSON, Steven P. 12744 Via Donada 12768 Via Nieve 14542 Kittery Street Del Mar, California 92014, USA San Diego, California 92130, USA Poway, California 92064, USA (hereinafter "Inventor(s))," have invented certain new and useful improvements in FORMULATIONS AND METHODS FOR STABILIZING PCR REAGENTS for which a United States patent application is executed on even date herewith; for which Application No. _____was filed on _____ in the United States Patent Office; for which Application No. PCT/US2013/077290 was filed on December 20, 2013, 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, BIOMATRICA, INC., a corporation of the State of California, having a place of business at 5627 Oberlin Drive, Suite 120, San Diego, CA 92121, USA, (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 Assignce: 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 and Applications, including the right to claim priority to said Inventions and said Applications; (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). 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. 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. 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.

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Attorney Docket No 35147-712,601, Patent Appl No PCT/US23/77290, Page 1 of 2

	PATENT ASSIGNMENT	Docket Number .: 35147-712.601
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.		
6. This instrument will be interpreted and construed in accordance with the laws of the State of California, without regard to conflict of law principles. If any provision of this instrument is found to be illegal or unenforceable, the other provisions shall remain effective and enforceable to the greatest extent permitted by law. This instrument may be executed in counterparts, each of which is deemed an original, but all of which together constitute one and the same agreement.		
IN WITNESS below:	S WHEREOF, said Inventor(s) have executed and delivered this instr	rument to said Assignee as of the dates written
Date: x_1/6/14	x Scott E. Whitney Scott E. WHITNEY	
Date; x	NStephanie DE LOS RIOS	
Date: x	x Senait GHIRMAI	
Date: x_//6//4	Rolf MULLER	
Date: x 1 7 14	x Was Co LIBERAL	
Date: x 1/7/14	X Steven P. WILKINSON	
RECEIVED AND AGREED TO BY ASSIGNEE:		
Date: x_2/6 BIOMATRICA, INC.	By: x Name: Rolf Müller, Ph.D. Title: Founder, President a	nd CSO

PATENT ASSIGNMENT Docket Number .: 35147-712.601 WHEREAS, the undersigned: I. WHITNEY, Scott E. 2. DE LOS RIOS, Stephanie 3. GHIRMAI, Senait 7615 Canyon Point Lane 750 Kalamath Drive 5335 Repecho Drive, B102 San Diego, California 92126, USA Del Mar, California 92014, USA San Diego, California 92124, USA 4. MULLER, Rolf 5. LIBERAL, Vasco 6. WILKINSON, Steven P. 12744 Via Donada 12768 Via Nieve 14542 Kittery Street Del Mar, California 92014, USA San Diego, California 92130, USA Poway, California 92064, USA (hereinafter "Inventor(s))," have invented certain new and useful improvements in FORMULATIONS AND METHODS FOR STABILIZING PCR REAGENTS for which a United States patent application is executed on even date herewith; for which Application No. _____was filed on _____ in the United States Patent Office; for which Application No. PCT/US2013/077290 was filed on December 20, 2013, 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, BIOMATRICA, INC., a corporation of the State of California, having a place of business at 5627 Oberlin Drive, Suite 120, San Diego, CA 92121, USA, (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 Assignce: 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 and Applications, including the right to claim priority to said Inventions and said Applications; (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). 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. 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. 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.

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Attorney Docket No 35147-712,601, Patent Appl No PCT/US23/77290, Page 1 of 2

	PATENT ASSIGNMENT		Docket Number .: 35147-712.601
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6. This instrument will be interpreted and construed in accordance with the laws of the State of California, without regard to conflict of law principles. If any provision of this instrument is found to be illegal or unenforceable, the other provisions shall remain effective and enforceable to the greatest extent permitted by law. This instrument may be executed in counterparts, each of which is deemed an original, but all of which together constitute one and the same agreement. IN WITNESS WHEREOF, said Inventor(s) have executed and delivered this instrument to said Assignee as of the dates written below:			
Date: x	NScott E. WHITNEY	-	
Date: x	xStephanie DE LOS RIOS		
Date: x_0]] 5 14	x_Sevait Sett	_	
Date: x	xRolf MULLER		
Date: x	xVasco LIBERAL		
Date: x	xSteven P. WILKINSON		
RECEIVED AND AGR	EED TO BY ASSIGNEE:		$\mathcal{I}_{\mathcal{O}}$
Dale: x <u>2/6//</u> BIOMATRICA, INC.	<u>'/</u>	Byrx Name: Rolf Multer, Ph.D. Title: Founder, President an	nd CSO

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Attorney Docket No 35147-712,601, Patent Appl No. PCT/US23/77290, Page 2 of 2

PATENT ASSIGNMENT Docket Number .: 35147-712.601 WHEREAS, the undersigned: I. WHITNEY, Scott E. 2. DE LOS RIOS, Stephanie 3. GHIRMAI, Senait 7615 Canyon Point Lane 750 Kalamath Drive 5335 Repecho Drive, B102 San Diego, California 92126, USA Del Mar, California 92014, USA San Diego, California 92124, USA 4. MULLER, Rolf 5. LIBERAL, Vasco 6. WILKINSON, Steven P. 12744 Via Donada 12768 Via Nieve 14542 Kittery Street Del Mar, California 92014, USA San Diego, California 92130, USA Poway, California 92064, USA (hereinafter "Inventor(s))," have invented certain new and useful improvements in FORMULATIONS AND METHODS FOR STABILIZING PCR REAGENTS for which a United States patent application is executed on even date herewith; for which Application No. _____was filed on _____ in the United States Patent Office; for which Application No. PCT/US2013/077290 was filed on December 20, 2013, 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, BIOMATRICA, INC., a corporation of the State of California, having a place of business at 5627 Oberlin Drive, Suite 120, San Diego, CA 92121, USA, (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 Assignce: 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 and Applications, including the right to claim priority to said Inventions and said Applications; (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). 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. 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. 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.

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Attorney Docket No 35147-712,601, Patent Appl No PCT/US23/77290, Page 1 of 2

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below:	xScott E. WHITNEY		
Date: x 1/8/14	x Atty huseled Y		· ·
Date: x	x_ Senait GHIRMAI		
Date: x	xROIFMULLER	-	
Date: x	xVasco LIBERAL	-	
Date: x	xSteven P. WILKINSON"	-	
RECEIVED AND AGREED TO BY ASSIGNEE:			
Date: x 2/6/ BIOMATRICA, INC.	14	By: x Name: Rolf Müller, Ph.D. Title: Kounder, President a	and CSO

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