

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4990768

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
BRIAN D. BROHMAN	02/02/2017
ZHEN ZHANG	01/03/2018
KEVIN S. GOUDY	02/05/2017
ROBERT C. DOSS	02/02/2017
ALAN M. EZRIN	03/28/2018
KEVIN PAUL ROSENBLATT	02/06/2017
RECEIVING PARTY DATA	
Name:	NX PRENATAL INC.
Street Address:	4350 BROWNSBORO ROAD
Internal Address:	SUITE 110
City:	LOUISVILLE
State/Country:	KENTUCKY
Postal Code:	40207
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15997540
CORRESPONDENCE DATA	
Fax Number:	(202)842-7899
<i>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.</i>	
Phone:	(650) 843-5198
Email:	pellison@cooley.com
Correspondent Name:	MADHURI ROY, COOLEY LLP
Address Line 1:	ATTN: IP DOCKETING DEPARTMENT
Address Line 2:	1299 PENNSYLVANIA AVENUE NW, SUITE 700
Address Line 4:	WASHINGTON, D.C. 20004
ATTORNEY DOCKET NUMBER:	NXPR-002/01US 329240-2016
NAME OF SUBMITTER:	MADHURI ROY
SIGNATURE:	/Madhuri Roy/
DATE SIGNED:	06/04/2018

PATENT

Total Attachments: 24

source=Copy of PCT Assignment#page1.tif
source=Copy of PCT Assignment#page2.tif
source=Copy of PCT Assignment#page3.tif
source=Copy of PCT Assignment#page4.tif
source=Copy of PCT Assignment#page5.tif
source=Copy of PCT Assignment#page6.tif
source=Copy of PCT Assignment#page7.tif
source=Copy of PCT Assignment#page8.tif
source=Copy of PCT Assignment#page9.tif
source=Copy of PCT Assignment#page10.tif
source=Copy of PCT Assignment#page11.tif
source=Copy of PCT Assignment#page12.tif
source=Copy of PCT Assignment#page13.tif
source=Copy of PCT Assignment#page14.tif
source=Copy of PCT Assignment#page15.tif
source=Copy of PCT Assignment#page16.tif
source=Copy of PCT Assignment#page17.tif
source=Copy of PCT Assignment#page18.tif
source=Copy of PCT Assignment#page19.tif
source=Copy of PCT Assignment#page20.tif
source=Copy of PCT Assignment#page21.tif
source=Copy of PCT Assignment#page22.tif
source=Copy of PCT Assignment#page23.tif
source=Copy of PCT Assignment#page24.tif

ASSIGNMENT

Brian D. BROHMAN, residing at 4307 Northwood Drive, Louisville, Kentucky 40220; Zhen ZHANG, residing at 14104 Big Branch Drive, Dayton, Maryland 21036; Kevin S. GOUDY, residing at 219 Gordon Street, Decatur, Georgia 30030; Robert C. DOSS, residing at 111 Woodland Avenue #206, Lexington, Kentucky 40502; Alan M. EZRIN, residing at 1827 South Bayshore Lane, Miami, Florida 33133; and Kevin Paul ROSENBLATT, residing at 4909 Valerie Street, Bellaire, Texas 77401, (each referred to as "Assignor"), have made an invention(s) (the "Invention(s)") set forth in an application for a patent, entitled USE OF CIRCULATING MICROPARTICLES TO STRATIFY RISK OF SPONTANEOUS PRETERM BIRTH, and which is a:

- (1) provisional application
(a) to be filed herewith; or
(b) bearing Application No. , and filed on ;
- (2) non-provisional application
(a) to be filed herewith; or
(b) bearing Application No. , and filed on ; and/or
- (3) PCT application
(a) bearing Application No. **PCT/US2016/065024**, and filed on **December 5, 2016**.

WHEREAS, NX Prenatal Inc., a corporation of Delaware having its principal place of business at **4350 Brownsboro Road, Suite 110, Louisville, Kentucky 40207**, its successors, legal representatives and assigns, (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention(s); the application(s) for patent identified above; the right to file applications for patent of the United States or other countries on the Invention(s); any application(s) for patent of the United States or other countries claiming priority to, and/or the benefit of, these applications; any provisional or other right to recover any and all past, present, and future damages, including royalties, for any and all past, present, and future infringements of these application(s); and any and all patent(s) of the United States or other countries that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee or a predecessor in interest of the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee or a predecessor in interest of the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

(a) the Invention(s);

(b) the application(s) for patent identified above;

(c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Hague Convention, the Paris Convention for the Protection of Industrial Property, and under the Patent Cooperation Treaty, and all rights of claiming priority in any country of the world;

(d) any application(s) for patent of the United States or other countries claiming the Invention(s);

(e) any application(s) for patent of the United States or other countries claiming priority to, and/or the benefit of, at least one of the application(s) for patent identified above or any application(s) for patent claiming the Invention(s), including any substitute application(s), national phase application(s), division(s), continuation(s), and continuation(s)-in-part;

(f) any provisional or other right to recover any and all past, present, and future damages, including royalties, for any and all past, present, and future infringements of any application for patent identified in the preceding paragraphs (b)-(e) and of any and all patent(s) granted based thereon in the United States and in all other countries; and

(g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b)-(e), including any reissue(s), reexamination(s), revival(s), renewal(s) and extension(s) of said patent(s).

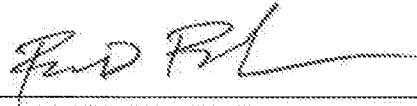
The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignor is a lawful owner of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein, and that Assignor will not make or enter into any assignment, sale, agreement or encumbrance which would conflict with these presents.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said

application(s), and said patent(s), including interference and derivation proceedings, and any post-grant proceedings (e.g., opposition proceedings, post-grant reviews, *Inter partes* reviews, supplemental examinations, etc.) without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date: FEB 2, 2017 By: 
Brian D. BROHMAN

WITNESSED BY: 
DATE: 2/2/17
NAME: PAUL BROHMAN

Date: _____ By: _____
Zhen ZHANG

WITNESSED BY: _____
DATE: _____
NAME: _____

Date: _____ By: _____
Kevin S. GOUDY

WITNESSED BY: _____
DATE: _____
NAME: _____

Date: _____ By: _____

Robert C. DOSS

WITNESSED BY: _____

DATE: _____

NAME: _____

Date: _____ By: _____

Alan M. EZRIN

WITNESSED BY: _____

DATE: _____

NAME: _____

Date: _____ By: _____


Kevin Paul ROSENBLATT

WITNESSED BY: _____

DATE: _____

NAME: _____


For and on behalf of ASSIGNEE

Date: FEB 2, 2017 By: 

Name: Brian D. Brohman

Title: Chief Executive Officer

Company: NX Prenatal Inc.

WITNESSED BY: 

DATE: 2/2/17

NAME: BRIAN D BROHMAN

ASSIGNMENT

Brian D. BROTHMAN, residing at 4307 Northwood Drive, Louisville, Kentucky 40220; Zhen ZHANG, residing at 14104 Big Branch Drive, Dayton, Maryland 21036; Kevin S. GOUDY, residing at 219 Gordon Street, Decatur, Georgia 30030; Robert C. DOSS, residing at 111 Woodland Avenue #206, Lexington, Kentucky 40502; Alan M. EZRIN, residing at 1827 South Bayshore Lane, Miami, Florida 33133; and Kevin Paul ROSENBLATT, residing at 4909 Valerie Street, Boffire, Texas 77401, (each referred to as "Assignor"), have made an invention(s) (the "Invention(s)") set forth in an application for a patent, entitled USE OF CIRCULATING MICROPARTICLES TO STRATIFY RISK OF SPONTANEOUS PRETERM BIRTH, and which is a:

- (1) provisional application
 (a) to be filed herewith; or
 (b) bearing Application No. , and filed on ;
- (2) non-provisional application
 (a) to be filed herewith; or
 (b) bearing Application No. , and filed on ; and/or
- (3) PCT application
 (a) bearing Application No. PCT/US2016/065024, and filed on December 5, 2016.

WHEREAS, NX Prenatal Inc., a corporation of Delaware having its principal place of business at 4350 Brownsboro Road, Suite 110, Louisville, Kentucky 40207, its successors, legal representatives and assigns, (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention(s); the application(s) for patent identified above; the right to file applications for patent of the United States or other countries on the Invention(s); any application(s) for patent of the United States or other countries claiming priority to, and/or the benefit of, these applications; any provisional or other right to recover any and all past, present, and future damages, including royalties, for any and all past, present, and future infringements of these application(s); and any and all patent(s) of the United States or other countries that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee or a predecessor in interest of the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee or a predecessor in interest of the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

(a) the Invention(s);

(b) the application(s) for patent identified above;

(c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Hague Convention, the Paris Convention for the Protection of Industrial Property, and under the Patent Cooperation Treaty, and all rights of claiming priority in any country of the world;

(d) any application(s) for patent of the United States or other countries claiming the Invention(s);

(e) any application(s) for patent of the United States or other countries claiming priority to, and/or the benefit of, at least one of the application(s) for patent identified above or any application(s) for patent claiming the Invention(s), including any substitute application(s), national phase application(s), division(s), continuation(s), and continuation(s)-in-part;

(f) any provisional or other right to recover any and all past, present, and future damages, including royalties, for any and all past, present, and future infringements of any application for patent identified in the preceding paragraphs (b)-(e) and of any and all patent(s) granted based thereon in the United States and in all other countries; and

(g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b)-(e), including any reissue(s), reexamination(s), revival(s), renewal(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignor is a lawful owner of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein, and that Assignor will not make or enter into any assignment, sale, agreement or encumbrance which would conflict with these presents.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said

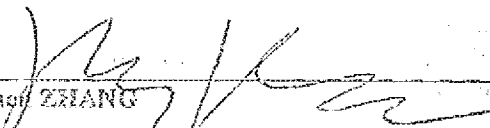
application(s), and said patent(s), including interference and derivation proceedings, and any post-grant proceedings (e.g., opposition proceedings, post-grant reviews, *inter partes* reviews, supplemental examinations, etc.) without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date: _____ By: _____

Brian D. BROHMAN

WITNESSED BY: _____
DATE: _____
NAME: _____

Date: Jan 3, 2018 By: 
Zhen ZHANG

WITNESSED BY: _____
DATE: _____
NAME: _____

Date: _____ By: _____

Kevin S. COUDY

WITNESSED BY: _____
DATE: _____
NAME: _____

Attorney Docket No. NXPR-002/01WO 329240-2008

Application No. PCT/US2016/065024

Page 4 of 4

Date: _____ By: _____
Robert C. DOSS

WITNESSED BY: _____
DATE: _____
NAME: _____

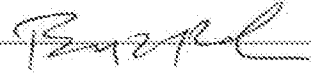
Date: _____ By: _____
Alan M. EZRIN

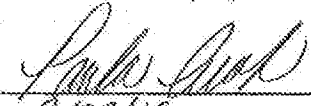
WITNESSED BY: _____
DATE: _____
NAME: _____

Date: _____ By: _____
Kevin Paul ROSENBLATT

WITNESSED BY: _____
DATE: _____
NAME: _____

For and on behalf of ASSIGNEE

Date: 3-29-2018 By: 
Name: Brian D. Brohman
Title: Chief Executive Officer
Company: NX Prenatal Inc.

WITNESSED BY: 
DATE: 3/29/18
NAME: PAULA BROHMAN

ASSIGNMENT

Brian D. BROHMAN, residing at 4307 Northwood Drive, Louisville, Kentucky 40220; Zhen ZHANG, residing at 14104 Big Branch Drive, Dayton, Maryland 21036; Kevin S. GOUDY, residing at 219 Gordon Street, Decatur, Georgia 30030; Robert C. DOSS, residing at 111 Woodland Avenue #206, Lexington, Kentucky 40502; Alan M. EZRIN, residing at 1827 South Bayshore Lane, Miami, Florida 33133; and Kevin Paul ROSENBLATT, residing at 4909 Valerie Street, Bellaire, Texas 77401, (each referred to as "Assignor"), have made an invention(s) (the "Invention(s)") set forth in an application for a patent, entitled USE OF CIRCULATING MICROPARTICLES TO STRATIFY RISK OF SPONTANEOUS PRETERM BIRTH, and which is a:

- (1) provisional application
 (a) to be filed herewith; or
 (b) bearing Application No. , and filed on ;
- (2) non-provisional application
 (a) to be filed herewith; or
 (b) bearing Application No. , and filed on ; and/or
- (3) PCT application
 (a) bearing Application No. PCT/US2016/065024, and filed on December 5, 2016.

WHEREAS, NX Prenatal Inc., a corporation of Delaware having its principal place of business at 4350 Brownsboro Road, Suite 110, Louisville, Kentucky 40207, its successors, legal representatives and assigns, (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention(s); the application(s) for patent identified above; the right to file applications for patent of the United States or other countries on the Invention(s); any application(s) for patent of the United States or other countries claiming priority to, and/or the benefit of, these applications; any provisional or other right to recover any and all past, present, and future damages, including royalties, for any and all past, present, and future infringements of these application(s); and any and all patent(s) of the United States or other countries that may be granted therefor or thereon,

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee or a predecessor in interest of the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee or a predecessor in interest of the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

(a) the invention(s);

(b) the application(s) for patent identified above;

(c) the right to file applications for patent of the United States or other countries on the invention(s), including all rights under the Hague Convention, the Paris Convention for the Protection of Industrial Property, and under the Patent Cooperation Treaty, and all rights of claiming priority in any country of the world;

(d) any application(s) for patent of the United States or other countries claiming the invention(s);

(e) any application(s) for patent of the United States or other countries claiming priority to, and/or the benefit of, at least one of the application(s) for patent identified above or any application(s) for patent claiming the invention(s), including any substitute application(s), national phase application(s), division(s), continuation(s), and continuation(s)-in-part;

(f) any provisional or other right to recover any and all past, present, and future damages, including royalties, for any and all past, present, and future infringements of any application for patent identified in the preceding paragraphs (b)-(e) and of any and all patent(s) granted based thereon in the United States and in all other countries; and

(g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b)-(e), including any reissue(s), reexamination(s), revival(s), renewal(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignor is a lawful owner of an undivided interest in the entire right, title, and interest in and to the invention(s), that the invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein, and that Assignor will not make or enter into any assignment, sale, agreement or encumbrance which would conflict with these presents.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the invention(s), said

application(s), and said patent(s), including interference and derivation proceedings, and any post-grant proceedings (e.g., opposition proceedings, post-grant reviews, *Inter partes* reviews, supplemental examinations, etc.) without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

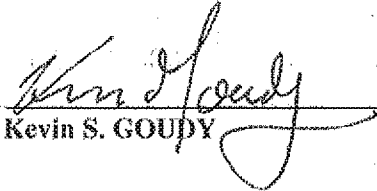
The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date: _____ By: Brian D. BROHMAN

WITNESSED BY: _____
DATE: _____
NAME: _____

Date: _____ By: Zhen ZHANG

WITNESSED BY: _____
DATE: _____
NAME: _____

Date: 2/5/2017 By: 
Kevin S. GOUDY

WITNESSED BY: _____
DATE: _____
NAME: _____

WITNESSED BY: _____
DATE: _____
NAME: _____

WITNESSED BY: _____
DATE: _____
NAME: _____

Date: _____ By: _____
Robert C. DOSS

WITNESSED BY: _____
DATE: _____
NAME: _____

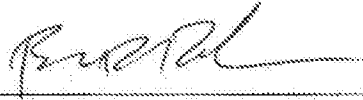
Date: _____ By: _____
Alan M. EZRIN

WITNESSED BY: _____
DATE: _____
NAME: _____

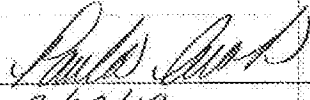
Date: _____ By: _____
Kevin Paul ROSENBLATT

WITNESSED BY: _____
DATE: _____
NAME: _____

For and on behalf of ASSIGNEE

Date: 3-29-2018 By: 

Name: Brian D. Brohman
Title: Chief Executive Officer
Company: NX Prenatal Inc.

WITNESSED BY: 
DATE: 3/29/18
NAME: PAULA ARON

WITNESSED BY: _____
DATE: _____
NAME: _____

140459085 v1

ASSIGNMENT

Brian D. BROHMAN, residing at 4307 Northwood Drive, Louisville, Kentucky 40220; **Zhen ZHANG**, residing at 14104 Big Branch Drive, Dayton, Maryland 21036; **Kevin S. GOUDY**, residing at 219 Gordon Street, Decatur, Georgia 30030; **Robert C. DOSS**, residing at 111 Woodland Avenue #206, Lexington, Kentucky 40502; **Alan M. EZRIN**, residing at 1827 South Bayshore Lane, Miami, Florida 33133; and **Kevin Paul ROSENBLATT**, residing at 4909 Valerie Street, Bellaire, Texas 77401, (each referred to as "Assignor"), have made an invention(s) (the "Invention(s)") set forth in an application for a patent, entitled **USE OF CIRCULATING MICROPARTICLES TO STRATIFY RISK OF SPONTANEOUS PRETERM BIRTH**, and which is a:

- (1) provisional application
 (a) to be filed herewith; or
 (b) bearing Application No. , and filed on ;

- (2) non-provisional application
 (a) to be filed herewith; or
 (b) bearing Application No. , and filed on ; and/or

- (3) PCT application
 (a) bearing Application No. **PCT/US2016/065024**, and filed on **December 5, 2016**.

WHEREAS, NX Prenatal Inc., a corporation of Delaware having its principal place of business at **4350 Brownsboro Road, Suite 110, Louisville, Kentucky 40207**, its successors, legal representatives and assigns, (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the invention(s); the application(s) for patent identified above; the right to file applications for patent of the United States or other countries on the Invention(s); any application(s) for patent of the United States or other countries claiming priority to, and/or the benefit of, these applications; any provisional or other right to recover any and all past, present, and future damages, including royalties, for any and all past, present, and future infringements of these application(s); and any and all patent(s) of the United States or other countries that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee or a predecessor in interest of the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee or a predecessor in interest of the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

- (a) the Invention(s);
- (b) the application(s) for patent identified above;
- (c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Hague Convention, the Paris Convention for the Protection of Industrial Property, and under the Patent Cooperation Treaty, and all rights of claiming priority in any country of the world;
- (d) any application(s) for patent of the United States or other countries claiming the Invention(s);
- (e) any application(s) for patent of the United States or other countries claiming priority to, and/or the benefit of, at least one of the application(s) for patent identified above or any application(s) for patent claiming the Invention(s), including any substitute application(s), national phase application(s), division(s), continuation(s), and continuation(s)-in-part;
- (f) any provisional or other right to recover any and all past, present, and future damages, including royalties, for any and all past, present, and future infringements of any application for patent identified in the preceding paragraphs (b)-(e) and of any and all patent(s) granted based thereon in the United States and in all other countries; and
- (g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b)-(e), including any reissue(s), reexamination(s), revival(s), renewal(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignor is a lawful owner of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein, and that Assignor will not make or enter into any assignment, sale, agreement or encumbrance which would conflict with these presents.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said

application(s), and said patent(s), including interference and derivation proceedings, and any post-grant proceedings (e.g., opposition proceedings, post-grant reviews, *Inter partes* reviews, supplemental examinations, etc.) without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date: _____ By: Brian D. BROHMAN

WITNESSED BY: _____
DATE: _____
NAME: _____

Date: _____ By: Zhen ZHANG

WITNESSED BY: _____
DATE: _____
NAME: _____

Date: _____ By: Kevin S. GOUDY

WITNESSED BY: _____
DATE: _____
NAME: _____

Date: 2 February 2017 By: Robert C. DoSS
Robert C. DOSS

WITNESSED BY: _____
DATE: _____
NAME: _____

Date: _____ By: _____
Alan M. EZRIN

WITNESSED BY: _____
DATE: _____
NAME: _____

Date: _____ By: _____
Kevin Paul ROSENBLATT

WITNESSED BY: _____
DATE: _____
NAME: _____

For and on behalf of ASSIGNEE

Date: 3-29-2018 By: [Signature]
Name: Brian D. Brohman
Title: Chief Executive Officer
Company: NX Prenatal Inc.

WITNESSED BY: [Signature]
DATE: 3/29/18
NAME: PAUL BROH

ASSIGNMENT

Brian D. BROHMAN, residing at 4307 Northwood Drive, Louisville, Kentucky 40220; Zhen ZHANG, residing at 14104 Big Branch Drive, Dayton, Maryland 21036; Kevin S. GOUDY, residing at 219 Gordon Street, Decatur, Georgia 30030; Robert C. DOSS, residing at 111 Woodland Avenue #206, Lexington, Kentucky 40502; Alan M. EZRIN, residing at 1827 South Bayshore Lane, Miami, Florida 33133; and Kevin Paul ROSENBLATT, residing at 4909 Valerie Street, Bellaire, Texas 77401, (each referred to as "Assignor"), have made an invention(s) (the "Invention(s)") set forth in an application for a patent, entitled USE OF CIRCULATING MICROPARTICLES TO STRATIFY RISK OF SPONTANEOUS PRETERM BIRTH, and which is a:

- (1) provisional application
 (a) to be filed herewith; or
 (b) bearing Application No. , and filed on ;
- (2) non-provisional application
 (a) to be filed herewith; or
 (b) bearing Application No. , and filed on ; and/or
- (3) PCT application
 (a) bearing Application No. PCT/US2016/065024, and filed on
 December 5, 2016.

WHEREAS, NX Prenatal Inc., a corporation of Delaware having its principal place of business at 4350 Brownshoro Road, Suite 110, Louisville, Kentucky 40207, its successors, legal representatives and assigns, (the "Assignee"), is desirous of acquiring the entire right, title, and interest in; the invention(s); the application(s) for patent identified above; the right to file applications for patent of the United States or other countries on the invention(s); any application(s) for patent of the United States or other countries claiming priority to, and/or the benefit of, these applications; any provisional or other right to recover any and all past, present, and future damages, including royalties, for any and all past, present, and future infringements of these application(s); and any and all patent(s) of the United States or other countries that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee or a predecessor in interest of the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee or a predecessor in interest of the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

(a) the Invention(s);

(b) the application(s) for patent identified above;

(c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Hague Convention, the Paris Convention for the Protection of Industrial Property, and under the Patent Cooperation Treaty, and all rights of claiming priority in any country of the world;

(d) any application(s) for patent of the United States or other countries claiming the Invention(s);

(e) any application(s) for patent of the United States or other countries claiming priority to, and/or the benefit of, at least one of the application(s) for patent identified above or any application(s) for patent claiming the Invention(s), including any substitute application(s), national phase application(s), division(s), continuation(s), and continuation(s)-in-part;

(f) any provisional or other right to recover any and all past, present, and future damages, including royalties, for any and all past, present, and future infringements of any application for patent identified in the preceding paragraphs (b)-(e) and of any and all patent(s) granted based thereon in the United States and in all other countries; and

(g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b)-(e), including any reissue(s), reexamination(s), revival(s), renewal(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignor is a lawful owner of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein, and that Assignor will not make or enter into any assignment, sale, agreement or encumbrance which would conflict with these presents.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said

application(s), and said patent(s), including interference and derivation proceedings, and any post-grant proceedings (e.g., opposition proceedings, post-grant reviews, *Inter partes* reviews, supplemental examinations, etc.) without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date: _____ By: _____
Brian D. BROHMAN

WITNESSED BY: _____
DATE: _____
NAME: _____

Date: _____ By: _____
Zhen ZHANG

WITNESSED BY: _____
DATE: _____
NAME: _____

The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

Date: _____ By: _____
Kevin S. GOUDY

WITNESSED BY: _____
DATE: _____
NAME: _____

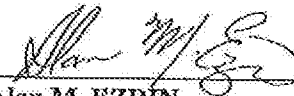
Date: _____ By: _____

Robert C. DOSS

WITNESSED BY: _____

DATE: _____

NAME: _____

Date: 3/28/18 By: 

Alan M. EZRIN

WITNESSED BY: Nancy Ezrin

DATE: 3-28-2018

NAME: NANCY EZRIN

Date: _____ By: _____

Kevin Paul ROSENBLATT

WITNESSED BY: _____

DATE: _____

NAME: _____

For and on behalf of ASSIGNEE

Date: 3-29-2018 By: 

Name: Brian D. Brohman

Title: Chief Executive Officer

Company: NX Prenatal Inc.

WITNESSED BY: 

DATE: 3/29/18

NAME: PAULA PROFF

ASSIGNMENT

Brian D. BROHMAN, residing at 4307 Northwood Drive, Louisville, Kentucky 40220; **Zhen ZHANG**, residing at 14104 Big Branch Drive, Dayton, Maryland 21036; **Kevin S. GOUDY**, residing at 219 Gordon Street, Decatur, Georgia 30030; **Robert C. DOSS**, residing at 111 Woodland Avenue #206, Lexington, Kentucky 40502; **Alan M. EZRIN**, residing at 1827 South Bayshore Lane, Miami, Florida 33133; and **Kevin Paul ROSENBLATT**, residing at 4909 Valerie Street, Bellaire, Texas 77401, (each referred to as "Assignor"), have made an invention(s) (the "Invention(s)") set forth in an application for a patent, entitled **USE OF CIRCULATING MICROPARTICLES TO STRATIFY RISK OF SPONTANEOUS PRETERM BIRTH**, and which is a:

- (1) provisional application
 (a) to be filed herewith; or
 (b) bearing Application No. , and filed on ;
- (2) non-provisional application
 (a) to be filed herewith; or
 (b) bearing Application No. , and filed on ; and/or
- (3) PCT application
 (a) bearing Application No. **PCT/US2016/065024**, and filed on **December 5, 2016**.

WHEREAS, **NX Prenatal Inc.**, a corporation of Delaware having its principal place of business at **4350 Brownsboro Road, Suite 110, Louisville, Kentucky 40207**, its successors, legal representatives and assigns, (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention(s); the application(s) for patent identified above; the right to file applications for patent of the United States or other countries on the Invention(s); any application(s) for patent of the United States or other countries claiming priority to, and/or the benefit of, these applications; any provisional or other right to recover any and all past, present, and future damages, including royalties, for any and all past, present, and future infringements of these application(s); and any and all patent(s) of the United States or other countries that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee or a predecessor in interest of the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee or a predecessor in interest of the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

WHEREAS, **NX Prenatal Inc.**, a corporation of Delaware having its principal place of business at **4350 Brownsboro Road, Suite 110, Louisville, Kentucky 40207**, its successors, legal representatives and assigns, (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention(s); the application(s) for patent identified above; the right to file applications for patent of the United States or other countries on the Invention(s); any application(s) for patent of the United States or other countries claiming priority to, and/or the benefit of, these applications; any provisional or other right to recover any and all past, present, and future damages, including royalties, for any and all past, present, and future infringements of these application(s); and any and all patent(s) of the United States or other countries that may be granted therefor or thereon.

PATENT

REEL: 046293 FRAME: 0744

- (a) the Invention(s);
- (b) the application(s) for patent identified above;
- (c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Hague Convention, the Paris Convention for the Protection of Industrial Property, and under the Patent Cooperation Treaty, and all rights of claiming priority in any country of the world;
- (d) any application(s) for patent of the United States or other countries claiming the Invention(s);
- (e) any application(s) for patent of the United States or other countries claiming priority to, and/or the benefit of, at least one of the application(s) for patent identified above or any application(s) for patent claiming the Invention(s), including any substitute application(s), national phase application(s), division(s), continuation(s), and continuation(s)-in-part;
- (f) any provisional or other right to recover any and all past, present, and future damages, including royalties, for any and all past, present, and future infringements of any application for patent identified in the preceding paragraphs (b)-(e) and of any and all patent(s) granted based thereon in the United States and in all other countries; and
- (g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b)-(e), including any reissue(s), reexamination(s), revival(s), renewal(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignor is a lawful owner of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein, and that Assignor will not make or enter into any assignment, sale, agreement or encumbrance which would conflict with these presents.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said

application(s), and said patent(s), including interference and derivation proceedings, and any post-grant proceedings (e.g., opposition proceedings, post-grant reviews, *Inter partes* reviews, supplemental examinations, etc.) without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date: _____ By: Brian D. BROHMAN

WITNESSED BY: _____
DATE: _____
NAME: _____

Date: _____ By: Zhen ZHANG

WITNESSED BY: _____
DATE: _____
NAME: _____

Date: _____ By: Kevin S. GOUDY

WITNESSED BY: _____
DATE: _____
NAME: _____


WITNESSED BY: _____
DATE: _____
NAME: _____

Date: _____ By: _____
Robert C. DOSS

WITNESSED BY: _____
DATE: _____
NAME: _____

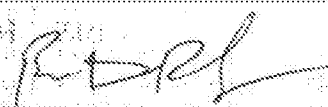
Date: _____ By: _____
Alan M. EZRIN

WITNESSED BY: _____
DATE: _____
NAME: _____

Date: 2-6-2017 By: 
Kevin Paul ROSENBLATT

WITNESSED BY: Lucinda Connolly
DATE: 2-6-17
NAME: Lucinda Connolly

For and on behalf of ASSIGNEE

Date: 3-29-2018 By: 
Name: Brian D. Brohman
Title: Chief Executive Officer
Company: NX Prenatal Inc.

WITNESSED BY: Paula Proff
DATE: 3/29/18
NAME: PAULA PROFF