

**PATENT ASSIGNMENT**

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Edward F. Leonard	12/17/2005
Alan C. West	12/19/2005
Nina C. Shapley	12/19/2005
Zhongliang Tang	12/19/2005
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	The Trustees of Columbia University in the City of New York
<b>Street Address:</b>	412 Low Memorial Library
<b>Internal Address:</b>	535 West 116th St., Mail Code 4308
<b>City:</b>	New York
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	10027
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	12509395
Application Number:	12942519
<b>CORRESPONDENCE DATA</b>	
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ATTORNEY DOCKET NUMBER:	T4356-14260US08-US09

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**PATENT  
 REEL: 025618 FRAME: 0481**

NAME OF SUBMITTER:

Joyce Rose

**Total Attachments: 5**

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**ASSIGNMENT**

WHEREAS, we, Edward F. Leonard residing at 29 Rossmore Avenue, Bronxville, New York 10708, USA; Alan C. West residing at 115 Newcomb Road, Tenafly, New York 07670, USA; Nina C Shapley, residing at 423 West 120<sup>th</sup> Street, #71, New York, New York 10027, USA; and Zhongliang Tang, residing at 22 Yorkshire Drive #24B, Highstown, New Jersey 08520, USA (collectively, "the Assignors") are the inventors of a certain new and useful invention and discovery entitled "SYSTEMS AND METHODS OF BLOOD-BASED THERAPIES HAVING A MICROFLUIDIC MEMBRANELESS EXCHANGE DEVICE" ("the Invention") for which a patent application was filed with the United States Patent and Trademark Office on May 12, 2005 and was assigned U.S. Application Number 11/127,905 ("the Application"), which is a continuation-in-part of U.S. Serial No. 10/801,366, filed March 15, 2004, and a continuation-in-part of PCT/US2004/07966, filed March 15, 2004, and which claims priority of U.S. Serial No. 60/454,579, filed March 14, 2003.

WHEREAS, The Trustees of Columbia University in the City of New York existing under the laws of the State of New York, whose address is 110 Low Memorial Library, 535 West 116<sup>th</sup> Street, New York, NY 10027, which, together with its successors and assigns (collectively the "Assignee"), is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited;

For valuable consideration, receipt of which is acknowledged, Assignors hereby assign to Assignee all of Assignors' right, title and interest in and to the Invention, all improvements therein, the Application and all priority rights arising therefrom, and any applications and/or patents, and any reissues and extensions thereof, which issue in any country upon any patent applications which correspond with any of the following: the Application; any application that claims priority from the Application (including divisionals, continuations, continuation-in-parts, or as an application claiming priority from a provisional application); or any application based in whole or in part on any of the foregoing.

Assignors agree that such Assignors and Assignors' heirs and legal representatives will, without further consideration, cooperate with Assignee in the prosecution of all of the above applications, execute, verify, acknowledge and deliver all such further papers, including applications for patents and for reissues and extensions therefor, and instruments of assignment and transfer thereof, and will communicate any facts known to Assignor relating to the Invention, to obtain or maintain or enforce patents for the Invention and improvements therein any and all countries and to vest title thereto in Assignee. Assignors further agree that such Assignors will, without further compensation to Assignors during the term of such Assignors' employment by Assignee and thereafter for reasonable compensation as determined by Assignee, perform such other acts as may be reasonably required when requested by Assignee, including attending depositions, preparing and executing declarations and affidavits and testifying as a witness, to obtain or maintain or enforce patents for the Invention and improvements therein in any and all countries and to vest title thereto to Assignee.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 17 day of  
December (Month/Year).



Edward F. Leonard

On this 17 day of December (Month/Year), Edward F. Leonard, personally known to me to be the same individual who executed the foregoing Assignment, acknowledged to me that execution of the same was of his/her own free will for the use and purposes therein set forth.



WITNESS:

Printed Name: Sheri G. Leonard

Residential Address:

29 Rossmore Avenue, Bronxville, NY, 10708

Attorney Docket No.: 19240.391 US1  
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IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 19 day of  
December, 2005 (Month/Year).

Alan C. West  
Alan C. West

On this 19 day of December, 2005 (Month/Year), Alan C. West, personally known to me to be the same individual who executed the foregoing Assignment, acknowledged to me that execution of the same was of his/her own free will for the use and purposes therein set forth.

WITNESS: Jody A. Schneider  
Printed Name: Jody A. Schneider  
Residential Address:  
913 Amsterdam Ave #7  
New York, NY 10025

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_ day of  
\_\_\_\_ (Month/Year).

\_\_\_\_\_  
Nina C. Shapely

On this \_\_\_\_ day of \_\_\_\_ (Month/Year), Nina C. Shapely, personally known to me to be the same individual who executed the foregoing Assignment, acknowledged to me that execution of the same was of his/her own free will for the use and purposes therein set forth.

WITNESS: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Residential Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_ day of

\_\_\_\_\_  
(Month/Year).

\_\_\_\_\_  
Alan C. West

On this \_\_\_\_ day of \_\_\_\_\_ (Month/Year), Alan C. West, personally known to me to be the same individual who executed the foregoing Assignment, acknowledged to me that execution of the same was of his/her own free will for the use and purposes therein set forth.

WITNESS: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Residential Address: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 19 day of

December 2005 (Month/Year).

Nina C. Shapley  
Nina C. Shapley

On this 19 day of December, 2005 (Month/Year), Nina C. Shapley, personally known to me to be the same individual who executed the foregoing Assignment, acknowledged to me that execution of the same was of his/her own free will for the use and purposes therein set forth.

WITNESS: Jody A. Schneider

Printed Name: Jody A. Schneider

Residential Address: \_\_\_\_\_

963 Amsterdam Ave. #7

New York, NY 10025

\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 19 day of  
December 2005 (Month/Year).



\_\_\_\_\_  
Zhongliang Tang

On this 19th day of December 2005 (Month/Year), Zhongliang Tang, personally known to me to be the same individual who executed the foregoing Assignment, acknowledged to me that execution of the same was of his/her own free will for the use and purposes therein set forth.

WITNESS: 

Printed Name: Bernadette M. Salinas

Residential Address:

1883 Platte River Lane, Unit 3  
Chula Vista, CA 91913