

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4534999

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
EDWARD ALLAN STANTON IV	12/05/2011
GLEN DELBERT ANTWILER	12/08/2011
PATRICK J. HOWLEY	12/02/2011
MICHAEL E. KINZIE	12/02/2011
JON A. DODD	12/02/2011
CASEY V. MEDINA	12/02/2011
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CARIDIANBCT, INC.
<b>Street Address:</b>	10811 WEST COLLINS AVENUE
<b>City:</b>	LAKWOOD
<b>State/Country:</b>	COLORADO
<b>Postal Code:</b>	80215
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15610224
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(303)876-9119
<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>	
<b>Phone:</b>	303-205-2784
<b>Email:</b>	IPDepartment@terumobct.com
<b>Correspondent Name:</b>	ELIZABETH J. REAGAN
<b>Address Line 1:</b>	10811 WEST COLLINS AVENUE
<b>Address Line 2:</b>	MAIL STOP 810 1F2
<b>Address Line 4:</b>	LAKWOOD, COLORADO 80215
<b>ATTORNEY DOCKET NUMBER:</b>	PG0257-US02
<b>NAME OF SUBMITTER:</b>	ELIZABETH J. REAGAN
<b>SIGNATURE:</b>	/ElizabethJREAGAN,Reg.No.57528/
<b>DATE SIGNED:</b>	08/03/2017

**Total Attachments: 8**

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**ASSIGNMENT**

WHEREAS, I/We (herein called "ASSIGNORS"):

1. Edward Allan STANTON, IV of 11860 W. 21st Way, Lakewood, Colorado 80215, USA
2. Glen Delbert ANTWILER of 2905 Xenon Street, Lakewood, Colorado 80215, USA
3. Patrick J. HOWLEY of 9302 S. Mountain Brush Street, Highlands Ranch, Colorado 80130, USA
4. Michael E. KINZIE of 807 Glenwood Drive, Lafayette, Colorado 80026, USA
5. Jon A. DODD of 6264 S. Van Gordon Way, Littleton, Colorado 80127, USA
6. Casey V. MEDINA of 10548 Kipling Place, Westminster, Colorado 80021, USA

is/are inventor(s) of the invention entitled:

**CUSTOMIZABLE METHODS AND SYSTEMS OF GROWING AND HARVESTING CELLS  
IN A HOLLOW FIBER BIOREACTOR SYSTEM**

for which the following patent application(s):

Application Type	Application Serial No.	Filing Date
United States Provisional Patent Application	<b>61/391152</b>	<b>10/08/2010</b>
United States Provisional Patent Application	<b>61/434726</b>	<b>01/20/2011</b>
United States Utility Patent Application	<b>13/269351</b>	<b>10/07/2011</b>
PCT Patent Application	<b>PCT/US2011/55453</b>	<b>10/07/2011</b>

Was/were submitted or filed (collectively, the "LISTED APPLICATION(S)");

AND WHEREAS, **CaridianBCT, Inc.** (herein called "ASSIGNEE"), an entity organized and existing under the laws of the State of **Colorado**, having a principal place of business at:

**10811 West Collins Avenue  
Lakewood, Colorado 80215  
U.S.A.**

is desirous of obtaining my entire right, title and interest in, to and under the said invention and the said LISTED APPLICATION(S);

NOW, THEREFORE, for good and valuable consideration the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and said applications herein, including said LISTED APPLICATION(S) and all continuations and subsequent applications, including divisional applications thereof, and national phase applications as applicable; and all Patents of the United States which may be granted thereon and all reissues and extensions; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be

**ASSIGNMENT**

filed for said invention in any country or countries foreign to the United States; together with the right to file such applications and the right to claim for the same the priority of patent application(s) herein, including said LISTED APPLICATION(S) and applications thereof and therefrom, applications for industrial protection under the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and applications thereof and therefrom; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith;

AND WE HEREBY authorize the above-mentioned ASSIGNEE or its legal representative(s) to insert in this instrument the filing date and serial number of said application(s) or any other information that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document;

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all continuing and subsequent applications, including divisional, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain, maintain, and enforce proper protection for said invention in any and all countries;

ASSIGNMENT

IN TESTIMONY WHEREOF, we hereunto set our hands and seals the day and year set opposite our signatures.

Assignor 1

Date: 5-Dec-2011

Edward Allan Stanton, IV  
Edward Allan STANTON, IV

STATE OF COLORADO            )  
  )ss.  
COUNTY OF Jefferson     )

On this 5th day of December, 2011, BEFORE ME Yanmin Huang the undersigned notary, personally appeared the above person, known to me to be the person whose name is subscribed to the foregoing instrument and who acknowledged to me that the execution was of free will for the purposes and consideration therein expressed.

Yanmin Huang  
Notary Public

My Commission expires:  
11/8/2013



My Commission Expires 11/08/2013

ASSIGNMENT

Assignor 2

Date: 12/8/2011

Glen Delbert Antwiler  
Glen Delbert ANTWILER

STATE OF COLORADO )  
  )ss.  
COUNTY OF Jefferson )

On this 8th day of December, 2011, BEFORE ME Yanmin Huang the undersigned notary, personally appeared the above person, known to me to be the person whose name is subscribed to the foregoing instrument and who acknowledged to me that the execution was of free will for the purposes and consideration therein expressed.

Yanmin Huang  
Notary Public

My Commission expires:  
11/8/2013



My Commission Expires 11/08/2013

ASSIGNMENT

Assignor 3

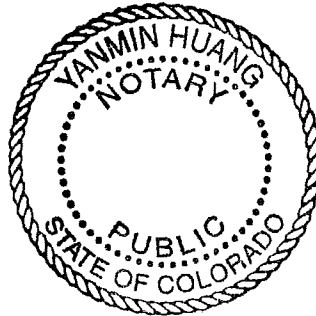
Date: 12/2/2011

Patrick J. Howley  
Patrick J. HOWLEY

STATE OF COLORADO )  
  )ss.  
COUNTY OF Jefferson )

On this 2nd day of December, 2011, BEFORE ME Yanmin Huang the undersigned notary, personally appeared the above person, known to me to be the person whose name is subscribed to the foregoing instrument and who acknowledged to me that the execution was of free will for the purposes and consideration therein expressed.

Yanmin Huang  
Notary Public  
My Commission expires: 11/08/2013



My Commission Expires 11/08/2013

ASSIGNMENT

Assignor 4

Date: 12/2/11

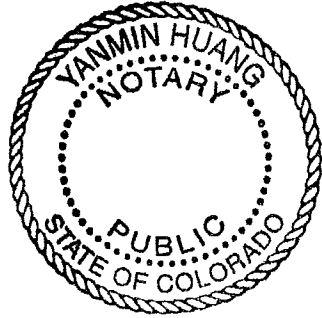
Michael E. Kinzie  
Michael E. KINZIE

STATE OF COLORADO            )  
  )ss.  
COUNTY OF Jefferson     )

On this 2nd day of December, 2011, BEFORE ME Yanmin Huang the undersigned notary, personally appeared the above person, known to me to be the person whose name is subscribed to the foregoing instrument and who acknowledged to me that the execution was of free will for the purposes and consideration therein expressed.

Yanmin Huang  
Notary Public

My Commission expires:  
11/08/2013 *YH*



My Commission Expires 11/08/2013



ASSIGNMENT

Assignor 5

Date: 12/02/2011

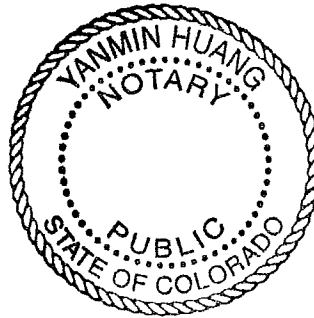
Jon A. DODD  
Jon A. DODD

STATE OF COLORADO )  
COUNTY OF Jefferson )ss.

On this 2nd day of December, 2011, BEFORE ME Yanmin Huang the undersigned notary, personally appeared the above person, known to me to be the person whose name is subscribed to the foregoing instrument and who acknowledged to me that the execution was of free will for the purposes and consideration therein expressed.

Yanmin Huang  
Notary Public

My Commission expires:  
11/08/2013



My Commission Expires 11/08/2013

ASSIGNMENT

Assignor 6

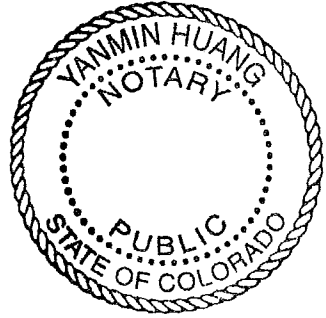
Date: 12/2/11

Casey V. Medina  
Casey V. MEDINA

STATE OF COLORADO      )  
  )ss.  
COUNTY OF Jefferson    )

On this 2nd day of December, 2011, BEFORE ME Yanmin Huang the undersigned notary, personally appeared the above person, known to me to be the person whose name is subscribed to the foregoing instrument and who acknowledged to me that the execution was of free will for the purposes and consideration therein expressed.

Yanmin Huang  
Notary Public  
My Commission expires:  
11/08/2013



My Commission Expires 11/08/2013

Additional assignors on additional sheets: NO