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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4943523

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARK E. JONES	04/16/2018
BRIAN J. NANKERVIS	05/01/2018

RECEIVING PARTY DATA

Name:	TERUMO BCT, INC.
Street Address:	10811 WEST COLLINS AVENUE
City:	LAKEWOOD
State/Country:	COLORADO
Postal Code:	80215

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15943619

CORRESPONDENCE DATA

Fax Number: (303)876-9119

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: 303-231-4297

Email: IPDepartment@terumobct.com

Correspondent Name: RENÉ A. PEREYRA

Address Line 1: 10811 WEST COLLINS AVENUE

Address Line 2: 158-2

Address Line 4: LAKEWOOD, COLORADO 80215

ATTORNEY DOCKET NUMBER:	PG0352-US02
NAME OF SUBMITTER:	RENÉ A. PEREYRA
SIGNATURE:	/ReneAPEREYRA,Reg.No.45800/
DATE SIGNED:	05/02/2018

Total Attachments: 4

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> **PATENT** REEL: 045697 FRAME: 0824 504896780

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

- 1. Mark E. JONES of 11976 Blacktail Mountain, Littleton, Colorado 80127, U.S.A.
- 2. Brian J. NANKERVIS of 16437 W. 1st Avenue, Golden, Colorado 80401, U.S.A.

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

Cell Expansion

for which the following patent application(s):

Application Type	Application Serial No.	Filing Date
US Utility Patent Application	15/943619	04/02/2018

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

AND WHEREAS, **Terumo BCT**, **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, I/we, the said ASSIGNOR(S), 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, my/our entire right, title and interest in, to and under the said invention, and said application(s) 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 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 I/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 I/WE HEREBY covenant and agree that I/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 I/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 I/WE HEREBY further covenant and agree that I/we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me/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.

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

Assignor 1	2
Date: April 16, 2018	Mark F. IONES
STATE OF COLORADO)	Mark Ersentes
county of Jefforson)ss.	1 -1
Subscribed and affirmed before me this 16 14 day of	April 20/8 by
Mark E. JONES who personally appeared the above per	son, known to me to be the person whose name
is subscribed to the foregoing instrument and who ackr	_
will for the purposes and consideration therein express	ed.
MILLAGE	YANMIN HUANG NOTARY PUBLIC STATE OF COLORADO
(Notary's official signature)	NOTARY ID 20014035446 MY COMMISSION EXPIRES 11/08/2021
	IN COMMISSION EXPINES (1100/2021
11/08/2021	(Notary Seal)
(Commission Expiration)	

Assignor 2	_
Date: 5/1/2018	EN
	Brian J. NANKERVIS
STATE OF COLORAOD)	
COUNTY OF Jefferson)	
Subscribed and affirmed before me this /s/ day of Brian J. NANKERVIS who personally appeared the abouname is subscribed to the foregoing instrument and we free will for the purposes and consideration therein expressions.	who acknowledged to me that the execution was of
(Notary(s official signature)	YANMIN HUANG NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20014035446 MY COMMISSION EXPIRES 11/08/2021
$\frac{11/08/2021}{\text{(Commission Expiration)}}$	(Notary Seal)
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Additional assignors on additional sheets: NO

RECORDED: 05/02/2018