505781463 11/19/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5828289

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KRIS NACKAERTS	12/21/2016
MAKOTO HIRABUKI	01/09/2017
MARCELLUS GEISELMANN	06/13/2016
BRUCE ELLINGBOE	09/13/2019
HONG DUC NGUYEN	09/19/2019
TIM TAGA	09/24/2019
ROSS TICHOTA	03/20/2017
TADASHI IMAI	08/24/2017
ARMIN BRENDLE	06/13/2016
CHRISTOPH PABST	06/13/2016
ROLAND BISET	09/16/2019
WILFRIED MERTENS	12/27/2016
KLAUS-GÜNTER EBERLE	06/13/2016

RECEIVING PARTY DATA

Name:	TERUMO BCT, INC			
Street Address:	10811 W COLLINS AVENUE			
City:	LAKEWOOD			
State/Country:	DLORADO			
Postal Code:	80215			
Name:	ANDREAS HETTICH GMBH & CO. KG			
Name: Street Address:	ANDREAS HETTICH GMBH & CO. KG FÖHRENSTRASSE 12			
Street Address:	FÖHRENSTRASSE 12			

PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	16688350		

CORRESPONDENCE DATA

PATENT REEL: 051053 FRAME: 0350

505781463

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: 303-239-2362

Email: IPDepartment@terumobct.com

Correspondent Name: TERUMO BCT, INC INTELLECTUAL PROPERTY LA

Address Line 1: 10811 WEST COLLINS AVE

Address Line 4: LAKEWOOD, COLORADO 80215

NAME OF SUBMITTER:	JENNY NIKAIDO
SIGNATURE:	/Jenny Nikaido/
DATE SIGNED:	11/19/2019

Total Attachments: 8

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ASSIGNMENT

WHEREAS, I/We (herein called "ASSIGNOR(S)"):

- 1. NACKAERTS, Kris: Leuven, BELGIUM
- 2. HIRABUKI, Makoto: Leuven, BELGIUM
- 3. GEISELMANN, Marcellus: Tuttlingen, GERMANY
- 4. ELLINGBOE, Bruce: Littleton, Colorado UNITED STATES OF AMERICA
- 5. NGUYEN, Hong Duc: Denver, Colorado UNITED STATES OF AMERICA
- 6. TAGA, Tim: Arvada, Colorado UNITED STATES OF AMERICA
- 7. TICHOTA, Ross: Englewood, Colorado UNITED STATES OF AMERICA
- 8. IMAI Tadashi: Shizuoka, JAPAN
- 9. BRENDLE, Armin: Muehlhausen-Ehingen, GERMANY
- 10. PABST, Christoph: Radolfzell, GERMANY
- 11. BISET, Roland: Hemiksem, BELGIUM
- 12. MERTENS, Wilfried: Limburg, BELGIUM
- 13. EBERLE, Klaus-Günter: Tuttlingen, GERMANY

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

Composite Liquid Bag System Holder

for which the following patent application(s):

Country	Application Type	Application Serial No.	Filing Date
United States	US Provisional	62/118632	February 20, 2015
United States	US Regular Utility Application	15/048838	February 19, 2016
International Application Under The Patent Cooperation Treaty	PCT Utility Application	PCT/US2016/18777	February 19, 2016

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

AND WHEREAS,

Andreas Hettich GmbH & Co. KG: a corporation organized and existing under the laws of the Country of Germany, having a place of business at:

Föhrenstrasse 12

Tuttlingen, Germany 78532

and

Terumo BCT, Inc., 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.

(herein called "ASSIGNEES") are desirous of obtaining my/our entire right, title and interest in, to and

TBCTRef: PB0910

Page 1 of 3

PATENT

REEL: 051053 FRAME: 0352

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 ASSIGNEES, their 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 ASSIGNEES, their 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 ASSIGNEES or their 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 ASSIGNEES, their 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 ASSIGNEES, their successors, legal representatives and assigns, to obtain, maintain, and enforce proper protection for said invention in any and all countries:

TBCTRef: PB0910

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

Inventor Name	Signature	Date (MM-DD-YYYY)
NACKAERTS, Kris	Juleuli	
HIRABUKI, Makoto	学级 太	12-21-2016
GEISELMANN, Marcellus		01-09-2017 06-13-2U
ELLINGBOE, Bruce		9-13-2019
NGUYEN, Hong Duc	manning	9/19/2019
TAGA, Tim	Most	9/24/1919
TICHOTA, Ross	Por Calaba	M - 25 -
IMAI, Tadashi		Mar 20, 2017
BRENDLE, Armin	1126	06-12-204
PABST, Christoph	000	06-13-2016
BISET, Roland		100-15-1016
MERTENS, Wilfried	22	12.20 2.0
EBERLE, Klaus-Günter	Malle	12-21-2016 Ob -13-2016

Additional assignors on additional sheets: NO

REEL: 051053 FRAME: 0354

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

Inventor Name	Signature	Date
NACKAERTS, Kris	Markenha	(MM-DD-YYYY)
HIRABUKI, Makato	7 17 2	42-21-2016
GEISELMANN, Marcellus	(学)(大)	01-09-2017
	Mucain	96-13-24
ELLINGBOE, Bruce		7,7,5 (3)
NGUYEN, Hong Duc		
TAGA, Tim		
TICHOTA, Ross	Participal Contraction	
IMAJ, Tadashi	1835 Cafala	Mar 20, 2017
BRENDLE, Armin		06. 12.20.11
PABST, Christoph	000	06-13-2016
BISET, Roland		
MERTENS, Wilfried		16.09.2019
BERLE, Klaus-Günter	100	12-21-2016
	120000	06-13-20%

Additional assignors on additional sheets: NO

TECTRAF: PB0910

Page 3 of 3

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提出日:2017年8月24日

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	発 明 部	門 所属長	***************************************		管 理	部門	
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17.8.24							
部門整理番	号			テーマNo	•		

	① 発明の名称 Composite liquid bag system and holder							
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公社	氏名/社員番号	印		明譲渡		1 2 1 1 2	部門	所属事業所の住所
②社内発明者	A+ T	6256				TBCT	1&D	
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知的	財産部記入欄	入力	担当	課長	部長
		/ /	17/10/2	/ /	/ /
受付No.	2017-02150501		TANK		
受付日	2017/10/4	(Fig).	tion		

奨励金	1 /
有	無

発明考案届出書(2/2)

発明の名称	Composite liquid bag sy		
筆頭発明者	今井 正	提出日	2017年8月24日

評価項目【ビジネス】

1.	重要領域か	☑4:重要領域(高)□2:一般領域(高)	□3:重要領域(低) □1:一般領域(低)				
2.	製品売上の規模	☑4:大(10億円/年~)□2:小(1億円/年未満)	□3:中(1億円/年~) □1:なし				
3.	海外でのビジネス	□4:10カ国以上□2:5カ国未満	□3:5カ国以上 □1:なし(または日本のみ)				
4.	自社実施	✓4:実施中又は実施確実□2:実施可能性極小	□3:将来実施の可能性有り □1:なし(または不明)				
5.	他社抑止力	□4:十分期待できる □2:期待が小さい	☑3:ある程度期待できる □1:期待できない(または不明)				
6.	技術の寿命	☑4:長(10年以上、将来技術)□2:短(3-5年)	□ 3 : 中 (6 − 9 年) □ 1 : 極短 (3 年未満、単発採用)				
7.	将来性、先進性	□4:大□2:小	☑3:中 □1:なし				
8.	ライセンス、クロ スライセンス価値		□3:中 □1:なし				
9.	コストダウン効果	□4:大(5千万円/年~)□2:小(1千万円/年未満)	口,3:中 (1千万円/年~) 対1:なし				
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【知財記入欄】: 受付番号 ビジネス評価点 特許評価点 合計点 判定 担当 課長 国内出願 / / / / / / / / / / / / / / / / / / /							
【結果】 □ 国内特許出願 □ PCT出願 □ 実用新案							

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Invention Device Written Notice and Deed of Transfer Date submitted: Aug. 24, 2017

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Date Received Oct. 4, 2017 Shimoju						**		Uch	ida			O) Contraction		UPPERMETERS				

Invention Device Written Notice (2/2)

-	Name of Invention	Composite liquid bag system and holder			
-	Lead Inventor	Tadashi Imai	Date Submitted	Aug. 24, 2017	- Carried Control

Items for Evaluation [Busi	ness]					
1. Important area?	☐ 4 : Important area (high) ☐ 2 : General area (high)	☐ 3 : Important area (low) ☐ 1 : General area (low)				
2. Scale of product sale	s ☑ 4 : Large (¥1 billion/yr-) ☐ 2 : Small (less than ¥100 million/yr)	□ 3 : Medium (¥100 million/yr-) □ 1 : None				
3. Business overseas	☐ 4 : 10 countries or more ☐ 2 : Fewer than 5 countries	☐ 3:5 countries or more ☐ 1: None (or only Japan)				
4. Company implementation	✓ 4 : Implemented or will be implemented□ 2 : Low possibility of implementation	☐ 3: Possibility of implementation ☐ 1: None (or unclear)				
5. Deterrence to other companies	☐ 4 : Can be quite expected ☐ 2 : Expectations low	☐ 3 : Can be expected to an extent☐ 1 : Cannot be expected (or unclear)				
6. Lifespan of technology	Long (10 years or more, future ✓ 4: technology) ☐ 2: Short (3 to 5 years)	☐ 3 : Medium (6 to 9 years) ☐ 1 : Very short (less than 3 years, single application				
7. Promise, innovation	☐ 4 : Large ☐ 2 : Small	☐3: Medium ☐1: None				
8. License and cross license value	□ 4 : High □ 2 : Low	□ 3 : Medium □ 1 : None				
9. Cost reduction effect	☐ 4 : Large (¥5 million/yr-) ☐ 2 : Small (less than ¥1 million/yr)	☐ 3 :Medium (¥1 million/yr-) ☐ 1 : None				
[Desire for Foreign Appl ☑ Desired Country: ☐ US	lication])				
[For use by IP]: Receipt Business Domestic application	No. s eval. points Patent eval. points Total points	Decision Personnel Section Manager				
[Results] Domestic par PCT applicar Utility model						

PATENT REEL: 051053 FRAME: 0359

RECORDED: 11/19/2019