

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5803471

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	CONFIRMATION OF SECURITY INTEREST	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	CRH MEDICAL CORPORATION	10/22/2019
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	JPMORGAN CHASE BANK, N.A., TORONTO BRANCH	
<b>Street Address:</b>	66 WELLINGTON STREET WEST	
<b>Internal Address:</b>	FLOOR 45	
<b>City:</b>	TORONTO	
<b>State/Country:</b>	ONTARIO	
<b>Postal Code:</b>	M5K 1E7	
<b>PROPERTY NUMBERS Total: 5</b>		
	<b>Property Type</b>	<b>Number</b>
	Patent Number:	7029438
	Patent Number:	5741273
	Patent Number:	9101360
	Patent Number:	9622750
	Application Number:	13972202
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>		
<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>	9164036135	
<b>Email:</b>	donna.grafton@wolterskluwer.com	
<b>Correspondent Name:</b>	CT CORPORATION	
<b>Address Line 1:</b>	555 CAPITOL MALL	
<b>Address Line 2:</b>	SUITE 1150	
<b>Address Line 4:</b>	SACRAMENTO, CALIFORNIA 95814	
<b>NAME OF SUBMITTER:</b>	HENRY GALE	
<b>SIGNATURE:</b>	/Henry Gale/	
<b>DATE SIGNED:</b>	11/04/2019	
<b>Total Attachments: 12</b>		

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RECORDATION FORM COVER SHEET  
**PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**

CRH Medical Corporation

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) October 22, 2019

- ☐ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☒ Other Confirmation of Security Interest

**2. Name and address of receiving party(ies)**

Name: JPMorgan Chase Bank, N.A., Toronto Branch

Internal Address: \_\_\_\_\_

Street Address: 66 Wellington Street West, Floor 45

City: Toronto

State: Ontario

Country: CAN Zip: M5K 1E7

Additional name(s) & address(es) attached? ☐ Yes ☒ No

**4. Application or patent number(s):**

☐ This document serves as an Oath/Declaration (37 CFR 1.63).

A. Patent Application No.(s)

See Schedule A

B. Patent No.(s)

See Schedule A

Additional numbers attached? ☒ Yes ☐ No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: Henry Gale

Internal Address: Chapman and Cutler LLP

Street Address: 595 Market Street

City: San Francisco

State: California Zip: 94105

Phone Number: (415) 278-9052

Docket Number: \_\_\_\_\_

Email Address: hgale@chapman.com

**6. Total number of applications and patents involved: 15**

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ \_\_\_\_\_**

- ☐ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**

Deposit Account Number \_\_\_\_\_

Authorized UserName \_\_\_\_\_

**9. Signature:** , for Chapman and Cutler LLP

Signature

October 28, 2019

Date

Henry Gale, Paralegal

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

12

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

**CONFIRMATION OF SECURITY INTEREST IN  
TRADEMARKS AND RELATED INTELLECTUAL PROPERTY**

October 22, 2019

**RECITALS:**

(a) CRH MEDICAL CORPORATION ("CRH"), a corporation existing under the laws of the Province of British Columbia with offices at Suite 522 – 999 Canada Place, World Trade Centre, Vancouver, British Columbia V6C 3E1, and CRH MEDICAL CORPORATION, a corporation existing under the laws of the State of Delaware with an office at 227 Bellevue Way NE, #188, Bellevue, WA USA 98004 ("CRH Delaware," and together with CRH, collectively, "Debtors" and each a "Debtor") are the owners of the trademarks, patents and domain names set forth in Exhibit A, the registrations and applications for such trademarks, patents and domain names identified therein and the underlying goodwill associated with such trademarks, patents and domain names (collectively, the "Intellectual Property"); and

(b) JPMORGAN CHASE BANK, N.A., TORONTO BRANCH, as administrative agent (the "Administrative Agent"), having a place of business at 66 Wellington Street West, Floor 45, Toronto, Ontario, M5K 1E7, Canada, has entered into an agreement with the Debtors and certain of the Debtors' affiliates, as reflected by a separate document entitled "General Security and Pledge Agreement" dated as of the date hereof (as amended, restated, supplemented or otherwise modified from time to time, the "Security Agreement"), by which each Debtor granted to the Administrative Agent, for itself, the Lenders and the other Secured Parties a security interest in all of its right, title and interest in and to certain property, including the Intellectual Property, in consideration of the provision of certain credit facilities to CRH.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are acknowledged, and in accordance with the terms and obligations set forth in the Security Agreement, the parties hereto hereby agree as follows:

1. Capitalized terms used herein and not otherwise defined herein shall have the respective meanings assigned to them in the Security Agreement.
2. Each Debtor hereby confirms the grant to the Administrative Agent, for itself, the Lenders and the other Secured Parties of, and hereby grants and re-grants to the Administrative Agent, for itself, the Lenders and the other Secured Parties, a security interest in and to all right, title and interest of such Debtor in and to the Intellectual Property.
3. This agreement has been executed and delivered by Debtors for the purpose of recording the grant of security interest herein with the United States Patent and Trademark Office. The security interest granted hereby has been granted to the Administrative Agent in connection with the Security Agreement and is expressly subject to the terms and conditions thereof. The Security Agreement (and all rights and remedies of the Administrative Agent thereunder) shall remain in full force and effect in accordance with its terms and is hereby

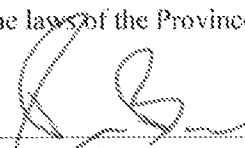
incorporated by reference. In the event of any conflict between the terms of this agreement and the terms of the Security Agreement, the terms of the Security Agreement shall govern.

4. This agreement may be executed in counterparts (and by different parties hereto on different counterparts), each of which shall constitute an original, but all of which when taken together shall constitute a single contract. Delivery of an executed counterpart of a signature page of this agreement by facsimile or other electronic transmission shall be effective as delivery of a manually executed counterpart of this agreement.

[Signature Page Follows]

Dated as of the date and year first written above.

CRH MEDICAL CORPORATION, a corporation existing  
under the laws of the Province of British Columbia

By:  .....

Name: Richard Bear

Title: Chief Financial Officer

CRH MEDICAL CORPORATION, a corporation existing  
under the laws of the State of Delaware

By:  .....

Name: Richard Bear

Title: Chief Financial Officer

[SIGNATURE PAGE TO CONFIRMATION OF SECURITY INTEREST (US)]

JPMORGAN CHASE BANK, N.A., TORONTO BRANCH,  
as the Administrative Agent

By:   
Name: Sebastien F. Boulanger  
Title: Executive Director

[SIGNATURE PAGE TO CONFIRMATION OF SECURITY INTEREST (US)]

**PATENT**  
**REEL: 050926 FRAME: 0916**

Schedule A

**LIST OF INTELLECTUAL PROPERTY**

CRH Medical Corporation (CAN)

Patents

- US Patent or Application Number 7029438; Application Date November 20, 2002; Expiration Date July 30, 2023; Title ANOSCOPE.
- Canada Application or Patent Number 2363473; Application Date November 20, 2001; Expiration Date November 20, 2021; Title ANOSCOPE.
- US Patent or Application Number 5741273; Application Date March 8, 1996; Expiration Date March 8, 2016; Title ELASTIC BAND LIGATION DEVICE FOR THE TREATMENT OF HEMORRHOIDS.
- Canada Application or Patent Number 2240850; Application Date March 5, 1997; Expiration Date March 5, 2017; Title ELASTIC BAND LIGATION DEVICE FOR THE TREATMENT OF HEMORRHOIDS.
- Japan Application or Patent Number 4465179; Application Date November 20, 2003; Expiration Date November 20, 2023; Title ELASTIC BAND LIGATION DEVICE FOR THE TREATMENT OF HEMORRHOIDS.
- US Application or Patent Number US 9,101,360 Date August 11, 2015; Title ELASTIC BAND LIGATION DEVICE WITH INTEGRATED OBTURATOR AND METHOD FOR THE TREATMENT OF HEMORRHOIDS.
- US Application or Patent Number US 9,622,750; Date April 18, 2017; Title ELASTIC BAND LIGATION DEVICE WITH LOCKING MECHANISM FOR THE TREATMENT OF HEMORRHOIDS.
- US Application or Patent Number 13/972,202-pending; Application Date August 21, 2013; Title ELASTIC BAND LIGATION DEVICE FOR THE TREATMENT OF HEMORRHOIDS.
- China Application or Patent Number ZL201380079005.1; Date September 21, 2018; Title ELASTIC BAND LIGATION DEVICE WITH INEGRATED OBTURATOR AND METHOD FOR TREATMENT OF HEMORRHOIDS
- India Application or Patent Number 201617005517-pending; Application Date October 23, 2013; Title ELASTIC BAND LIGATION DEVICE WITH INEGRATED OBTURATOR AND METHOD FOR TREATMENT OF HEMORRHOIDS
- Japan Application or Patent Number 6255101; Date December 8, 2017; Title ELASTIC BAND LIGATION DEVICE WITH INEGRATED OBTURATOR AND METHOD FOR TREATMENT OF HEMORRHOIDS

- India Application or Patent Number 201617005518-pending; Application Date October 23, 2013; Title ELASTIC BAND LIGATION DEVICE WITH LOCKING MECHANISM AND METHOD FOR TREATMENT OF HEMORRHOIDS
- Japan Application or Patent Number 6255102; Date December 8, 2017; Title ELASTIC BAND LIGATION DEVICE WITH LOCKING MECHANISM AND METHOD FOR TREATMENT OF HEMORRHOIDS
- India Application or Patent Number 201617006045-pending; Application Date October 23, 2013; Title ELASTIC BAND LIGATION DEVICE WITH ANTI-PINCH FEATURE FOR THE TREATMENT OF HEMORRHOIDS.
- Japan Application or Patent Number 6255103; Date December 8, 2017; Title ELASTIC BAND LIGATION DEVICE WITH ANTI-PINCH FEATURE FOR THE TREATMENT OF HEMORRHOIDS.

#### Trademarks

- Canadian Application Number 1445550; Application Date July 21, 2009; Registration Number TMA790668; Registration Date February 14, 2014; Trademark CRH O'REGAN SYSTEM; Wares/Goods - disposable, single-use devise for hemorrhoid removal.
- US Serial Number 77795421; Application Date August 3, 2009; Registration Number 4096542; Registration Date February 7, 2012; Trademark CRH O'REGAN SYSTEM; Wares/Goods medical device, namely, disposable, single-use ligator for hemorrhoid removal.
- Chinese Application Number 17473734; Application Date July 21, 2015; Trademark CRH O'REGAN SYSTEM

CRH Medical Corporation (US)

Trademarks

- US Serial Number 86288713; Application Date May 22, 2014; Pending; Trademark CRH; Wares/Goods — Health products, namely, over-the-counter pharmaceutical preparations, namely, laxatives, dietary fiber to aid digestion, vitamin supplements, probiotic compositions and dietary and nutrition supplements for general health and well-being. (Product Discontinued)
- US Serial Number 86288705; Application Date May 22, 2014; Pending; Trademark CRH MEDSENSE; Wares/Goods — Health products, namely, over-the-counter pharmaceutical preparations, namely, laxatives, dietary fiber to aid digestions, vitamin supplements, probiotic compositions and dietary and nutrition supplements for general health and well-being. (Product Discontinued)
- US Serial Number 86288697; Application Date May 22, 2014; Pending; Trademark MEDSENSE; Wares/Goods — Health products, namely, over-the-counter pharmaceutical preparations, namely, laxatives, dietary fiber to aid digestions, vitamin supplements, probiotic compositions and dietary and nutrition supplements for general health and well-being. (Product Discontinued)

## DOMAIN NAMES

crhmedorders.com  
tnhemorrhoidtreatment.com  
connecticutthemorrhoidtreatment.com  
mainchemorrhoidtreatment.com  
westfloridahemorrhoidtreatment.com  
crhsystems.com  
hemorrhoidhemroidrelief.com  
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