504292592 03/28/2017

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4339273

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
ALEXANDER SHRUM	09/28/2016
BRANDON TRAN	10/07/2016
CHARLES L. BAXTER	09/29/2016
JARIN A. KRATZBERG	09/23/2016

RECEIVING PARTY DATA

Name:	COOK RESEARCH INCORPORATED	
Street Address:	1 GEDDES WAY	
City:	WEST LAFAYETTE	
State/Country:	INDIANA	
Postal Code:	47906	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15336229

CORRESPONDENCE DATA

Fax Number: (919)998-5701

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: 919-998-5700

Email: msaleeby@brinksgilson.com **Correspondent Name: BRINKS GILSON & LIONE** 4721 EMPEROR BLVD Address Line 1:

Address Line 2: **SUITE 220**

Address Line 4: **DURHAM, NORTH CAROLINA 27703**

ATTORNEY DOCKET NUMBER:	12730-1297
NAME OF SUBMITTER:	ALLYN B. ELLIOTT, REG. NO. 56745
SIGNATURE:	/Allyn B. Elliott/
DATE SIGNED: 03/28/2017	

Total Attachments: 9

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PATENT REEL: 041758 FRAME: 0348 504292592

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PATENT REEL: 041758 FRAME: 0349 PA-7927

ASSIGNMENT AND AGREEMENT

WHEREAS, the Inventor(s) acknowledges that any of my/our right, title, or interest in the Invention or Inventions aforementioned vest in Cook Research Incorporated (f/k/a Medical Engineering and Development Institute, Inc.), a corporation of the State of Indiana, having an office at 1 Geddes Way, West Lafayette, IN 47906, U.S.A. ("Assignee"), by virtue of employment or otherwise.

WHEREAS, to the extent that any of my/our right, title, or interest in the Invention or Inventions has not been transferred or assigned to Assignee by virtue of employment or otherwise, Inventor(s) desires to assign to Assignee all of my/our right, title, and interest in, to, or under the Invention or Inventions, and Assignee desires to accept such an assignment.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged:

Inventor(s) hereby sells, assigns and transfers and does hereby confirm any previous contribution, assignment, and transfer, unto Assignee and its successors, assigns, and legal representatives all of my/our right, title and interest in the Invention or Inventions, all of my/our right, title, and interest in the Invention or Inventions being in the United States of America and all other countries and states of the world, and all the rights and privileges in said application and under any and all Letters Patent or any continuation, division, renewal, or substitute thereof, and any reissue or re-examination thereof that may be granted in the United States and in any country or state of the world for the Invention or Inventions (including, without limitation, all proceeds thereof and the rights to sue for past, present and future infringements). I/We sell, assign, and transfer all of my/our right, title and interest in the Invention or Inventions as of the day of signature or of filing of the first filed patent application for the Invention or Inventions, whichever is the earlier.

The Inventor(s) authorizes Assignee to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for the Invention or Inventions, without further authorization from me/us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

The Inventor(s) hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any document that may be required in any country in proof of the right of Assignee to apply for patent or other form of protection for the Invention or Inventions and to claim the aforesaid benefit of the right of priority.

The Inventor(s) requests that any and all patents for the Invention or Inventions be issued to Assignee in the United States and in all countries foreign to the United States or to such nominees as Assignee may designate.

The Inventor(s) agrees that, when requested, I/we shall, without charge to Assignee, but at their expense, sign all papers, take all rightful oaths, and do all acts that may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection for the Invention or Inventions.

Dated:	
7 ¹¹	Alexander Shrum
12/2/11	
Dated: 10/7/16	- from L
	Brandon Tran
Dated:	
	Charles L. Baxter
Dated:	
	Jarin A. Kratzberg
State of Indiana)	
) ss:	
County of)	
On this day of	, 2016, before me personally came
	o be the individual described in and who executed
the loregoing institutions, and act	knowledged execution of the same.
	Notary Public
	Residing in County
My Commission Expires:	

State of Indiana)		
) ss: County of <u>Tippecange</u>)		
On this <u>7+h</u> day of <u>October</u> Brandon Tran, to me known to be the foregoing instrument, and acknowled	ged execution of the same.	who executed the
	Notary Public	-
	Notary Public Residing in Tippe canoe	County
My Commission Expires: 67-17		. ,
State of Indiana	GEOR Note St	GE E. CORPLE III Iry Public - Seat ale of Indiana
) ss:	My Commiss	ecanos County ion Expires Jul 17, 2023
County of)		
On this day of Charles L. Baxter, to me known to be the foregoing instrument, and acknow	the individual described in a	nd who executed
	Notary Public Residing in	County
My Commission Expires:		-
State of Indiana)) ss: County of)		
	, 2016, before me e the individual described in a dedged execution of the sam	and who executed
	Notary Public Residing in	County
My Commission Expires:		- ,

ASSIGNMENT AND AGREEMENT

WHEREAS, I/We, Alexander Shrum, residing at 330 N. Grant Street, Wes
Lafayette, IN 47906, Brandon Tran, residing at 330 N. Grant Street, West Lafayette
IN 47906, Charles L. Baxter, residing at 3055 Bluster Court, West Lafayette, IN
47906, and Jarin A. Kratzberg, residing at 1827 Kyverdale Drive, Lafayette, IN 47909
(the "Inventor(s)"), have invented a certain invention or inventions related to
"PRELOADED BRANCH WIRE LOOP CONSTRAINT" and being described in U.S.
Provisional Application No. <u>15/336.229</u> filed on <u>Oct. 27, 2016</u> ; U.S. Nonprovisional
Application No, filed on; PCT Application No.
filed on; and any and all applications claiming the benefit thereof including the
right of priority, (the "Invention" or "Inventions"). (I/We hereby consent to the patent
attorney entering the serial numbers and filing dates when they become known.)

WHEREAS, the Inventor(s) acknowledges that any of my/our right, title, or interest in the Invention or Inventions aforementioned vest in Cook Research Incorporated (f/k/a Medical Engineering and Development Institute, Inc.), a corporation of the State of Indiana, having an office at 1 Geddes Way, West Lafayette, IN 47906, U.S.A. ("Assignee"), by virtue of employment or otherwise.

WHEREAS, to the extent that any of my/our right, title, or interest in the Invention or Inventions has not been transferred or assigned to Assignee by virtue of employment or otherwise, Inventor(s) desires to assign to Assignee all of my/our right, title, and interest in, to, or under the Invention or Inventions, and Assignee desires to accept such an assignment.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged:

Inventor(s) hereby sells, assigns and transfers and does hereby confirm any previous contribution, assignment, and transfer, unto Assignee and its successors, assigns, and legal representatives all of my/our right, title and interest in the Invention or Invention or Inventions, all of my/our right, title, and interest in the Invention or Inventions being in the United States of America and all other countries and states of the world, and all the rights and privileges in said application and under any and all Letters Patent or any continuation, division, renewal, or substitute thereof, and any reissue or re-examination thereof that may be granted in the United States and in any country or state of the world for the Invention or Inventions (including, without limitation, all proceeds thereof and the rights to sue for past, present and future infringements). I/We sell, assign, and transfer all of my/our right, title and interest in the Invention or Inventions as of the day of signature or of filing of the first filed patent application for the Invention or Inventions, whichever is the earlier.

The Inventor(s) authorizes Assignee to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for the Invention or Inventions, without further authorization from me/us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

The Inventor(s) hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any document that may be required in any country in proof of the right of Assignee to apply for patent or other form of protection for the Invention or Inventions and to claim the aforesaid benefit of the right of priority.

The Inventor(s) requests that any and all patents for the Invention or Inventions be issued to Assignee in the United States and in all countries foreign to the United States or to such nominees as Assignee may designate.

The Inventor(s) agrees that, when requested, I/we shall, without charge to Assignee, but at their expense, sign all papers, take all rightful oaths, and do all acts that may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection for the Invention or Inventions.

Dated:	September 28, 2016	Olegade M. Sun
		Alexander Shrum
Dated:		
		Brandon Tran
Dated:		
		Charles L. Baxter
Dated:		
		Jarin A. Kratzberg
State of	,	
County of) ss: of <u>TIPPECANDE</u>)	
On this	28th day of <u>September</u> er Shrum, to me known to be t joing instrument, and acknowle	, 2016, before me personally came the individual described in and who executed edged execution of the same
_	, , , , , , , , , , , , , , , , , , , ,	\mathbb{Z}
	-	Notary Public
		Residing in TEPPECANOE County
My Com	mission Expires: <u>Feß るい</u>	<u>, 202</u> 4
		BRANDON WAYNE GREGG Seal Notary Public - State of Indiana Tippecanoe County
		My Commission Expires Feb 21, 2024

ASSIGNMENT AND AGREEMENT

WHEREAS, I/We, Alexander Shrum, residing at 330 N. Grant Street, West Lafayette, IN 47906, Brandon Tran, residing at 330 N. Grant Street, West Lafayette, IN 47906, Charles L. Baxter, residing at 3055 Bluster Court, West Lafayette, IN 47906, and Jarin A. Kratzberg, residing at 1827 Kyverdale Drive, Lafayette, IN 47909 (the "Inventor(s)"), have invented a certain invention or inventions related to "PRELOADED BRANCH WIRE LOOP CONSTRAINT" and being described in U.S. Provisional Application No. ______, filed on ______; U.S. Nonprovisional Application No. ______, filed on ______; U.S. Nonprovisional Application No. ______, filed on ______; and any and all applications claiming the benefit thereof including the right of priority, (the "Invention" or "Inventions"). (I/We hereby consent to the patent attorney entering the serial numbers and filing dates when they become known.)

WHEREAS, the Inventor(s) acknowledges that any of my/our right, title, or interest in the Invention or Inventions aforementioned vest in Cook Research Incorporated (f/k/a Medical Engineering and Development Institute, Inc.), a corporation of the State of Indiana, having an office at 1 Geddes Way, West Lafayette, IN 47906, U.S.A. ("Assignee"), by virtue of employment or otherwise.

WHEREAS, to the extent that any of my/our right, title, or interest in the Invention or Inventions has not been transferred or assigned to Assignee by virtue of employment or otherwise, Inventor(s) desires to assign to Assignee all of my/our right, title, and interest in, to, or under the Invention or Inventions, and Assignee desires to accept such an assignment.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged:

Inventor(s) hereby sells, assigns and transfers and does hereby confirm any previous contribution, assignment, and transfer, unto Assignee and its successors, assigns, and legal representatives all of my/our right, title and interest in the Invention or Inventions, all of my/our right, title, and interest in the Invention or Inventions being in the United States of America and all other countries and states of the world, and all the rights and privileges in said application and under any and all Letters Patent or any continuation, division, renewal, or substitute thereof, and any reissue or re-examination thereof that may be granted in the United States and in any country or state of the world for the Invention or Inventions (including, without limitation, all proceeds thereof and the rights to sue for past, present and future infringements). I/We sell, assign, and transfer all of my/our right, title and interest in the Invention or Inventions as of the day of signature or of filing of the first filed patent application for the Invention or Inventions, whichever is the earlier.

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The Inventor(s) requests that any and all patents for the Invention or Inventions be issued to Assignee in the United States and in all countries foreign to the United States or to such nominees as Assignee may designate.

The Inventor(s) agrees that, when requested, I/we shall, without charge to Assignee, but at their expense, sign all papers, take all rightful oaths, and do all acts that may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection for the Invention or Inventions.

Dated:	_
	Alexander Shrum
Dated:	
Dated: <u>29-SEP-ZOIL</u>	Brandon Tran Andrew Banking Charles L. Baxter
Dated: 23 - 5 EP -2016	\bigcirc 7
	Jarin A. Kratzberg
State of Indiana)	
County of) ss:	
On this day of <u>Alexander Shrum,</u> to me known to be the foregoing instrument, and acknow	, 2016, before me personally came the individual described in and who executed wledged execution of the same.
	Notary Public
	Residing in County
My Commission Expires:	

State of Indiana)		
County of) ss:		
On this day of Brandon Tran, to me known to be t foregoing instrument, and acknowle	, 2016, before he individual described in a edged execution of the sam	me personally came and who executed the ne.
	Notary Pu	<u></u> Iblic
	Residing in	
My Commission Expires:	·	
State of Indiana)		
County of Tipperance) ss:		
On this 29 day of Supto Charles L. Baxter, to me known to the foregoing instrument, and ackn	de the individual described	same.
	Residing in Tippecan	County
My Commission Expires: May	10,2023	·
State of Indiana) ss: County of <u>Tippe(anoe</u>)		
On this <u>23</u> day of <u>Septem</u> <u>Jarin A. Kratzberg</u> , to me known to the foregoing instrument, and ackn	be the individual describe	d in and who executed
	Notary Pi Residing in Troperan	
My Commission Expires: My	10. 2023	

Signed for and on behalf of COOK RESEARCH INCORPORATED
COOK RESEARCH INCORPORATED, This 16 day of Octabula, 2016
Jennifer L. Kerr, President
State of Indiana)
) ss: County of Tippecanoe)
On this \(\frac{1\times_{\text{day}}}{\text{day}} \) of \(\frac{1\text{Otoper}}{\text{Corr.}} \), 2016, before me personally came \(\frac{1\text{Jennifer L. Kerr.}}{\text{Kerr.}} \) to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.
ashley Fordham. Notary Public
Residing in Tippe Cande County
My Commission Expires: May 10, 2023