

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT5427043

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
SEQUENCE:	1
CONVEYING PARTY DATA	
Name	Execution Date
SUMIT VERMA	10/31/2017
KEVIN B. GRAVES	05/31/2017
BRYAN S. PETROFSKY	05/16/2017
JAMES RICHARD SPIEKER JR.	11/02/2017
RECEIVING PARTY DATA	
Name:	MALLINCKRODT NUCLEAR MEDICINE LLC
Street Address:	2703 WAGNER PLACE
City:	MARYLAND HEIGHTS
State/Country:	MISSOURI
Postal Code:	63043
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15410505
CORRESPONDENCE DATA	
Fax Number:	(314)612-2307
<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>	
Phone:	314-621-5070
Email:	uspatents@armstrongteasdale.com, clager@armstrongteasdale.com
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Address Line 4:	ST. LOUIS, MISSOURI 63105
ATTORNEY DOCKET NUMBER:	35800-38 (H-MI-00392)
NAME OF SUBMITTER:	MICHAEL G. MUNSELL
SIGNATURE:	/Michael G. Munsell/
DATE SIGNED:	03/18/2019
Total Attachments: 5	

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ASSIGNMENT


WHEREAS, I **Sumit Verma of Chesterfield, Missouri, Kevin B. Graves of Catawissa, Missouri, Bryan S. Petrofsky of St. Louis, Missouri, and James Richard Spieker, Jr. of O'Fallon, Missouri**, have invented the subject matter described in U.S. Non-Provisional Patent Application Serial No. **15/410,505** filed in the United States Patent and Trademark Office on **January 19, 2017**, and U.S. Provisional Patent Application Serial No. **62/331,611** filed in the United States Patent and Trademark Office on **May 4, 2016**, each entitled **SYSTEMS AND METHODS FOR STERILITY TESTING OF RADIONUCLIDE GENERATOR COLUMN ASSEMBLIES** (hereafter, the "invention").

WHEREAS, Mallinckrodt Nuclear Medicine LLC, 2703 Wagner Place, Maryland Heights, Missouri 63043, a corporation of the State of Delaware, is desirous of acquiring the entire right, title and interest of each of the above-named inventors in and to the invention and any and all patents to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, I do hereby sell, assign and transfer unto Mallinckrodt Nuclear Medicine LLC, its successors and assigns, our entire right, title and interest in and to the invention, as described in the aforesaid applications, in any form or embodiment thereof, and in and to the aforesaid applications; and in and to any applications filed in any foreign country based thereon, including the right to file the foreign applications under the provisions of the International Convention; also any improvements on the invention now or hereafter made by me during the period of my employment; also the entire right, title and interest in and to any and all patents or reissues or extensions thereof to be obtained in this or any foreign country upon the invention and any divisional, continuation, continuation-in-part or substitute applications which may be filed upon the invention or claim priority to the above-referenced patent applications for the invention in this or any foreign country; and we hereby authorize and request the issuing authority to issue any and all patents on the application(s) to Mallinckrodt Nuclear Medicine LLC, as assignee of our entire interest.

I further agree, without any payment by Mallinckrodt Nuclear Medicine LLC other than expenses incurred by the undersigned, to communicate to Mallinckrodt Nuclear Medicine LLC, its representatives or agents, any fact relating to the invention, including evidence for interference purposes or for other legal proceedings, whenever requested; testify in any interference or other

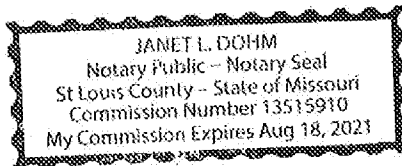
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal on the date set after my signature.

I, , dated this 31 day of OCTOBER, 2017.
Sumit Verma

ACKNOWLEDGEMENT

On this 31 day of OCTOBER, 2017 before me personally appeared **Sumit Verma** to me known to be the person described in and who executed the foregoing instrument, and acknowledge that he executed the foregoing instrument, and acknowledge that he executed the same as his free act and deed. In testimony whereof I have hereunto set my hand and official seal the day and year last above written.

(Seal)




Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal on the date set after my signature.

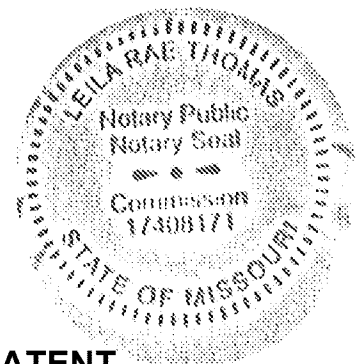
I, Kevin B. Graves, dated this 31 day of May, 2017.
Kevin B. Graves

ACKNOWLEDGEMENT

On this 31 day of MAY, 2017 before me personally appeared **Kevin B. Graves** to me known to be the person described in and who executed the foregoing instrument, and acknowledge that he executed the foregoing instrument, and acknowledge that he executed the same as his free act and deed. In testimony whereof I have hereunto set my hand and official seal the day and year last above written.

(Seal)

Y. L. Ho
Notary Public




IN TESTIMONY WHEREOF, I have hereunto set my hand and seal on the date set after my signature.

I, Bryan S. Petrofsky, dated this 16 day of MAY, 2017.

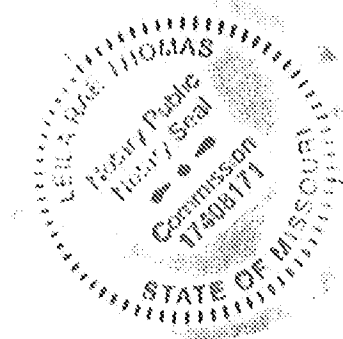
ACKNOWLEDGEMENT

On this 16 day of MAY, 2017 before me personally appeared **Bryan S. Petrofsky** to me known to be the person described in and who executed the foregoing instrument, and acknowledge that he executed the foregoing instrument, and acknowledge that he executed the same as his free act and deed. In testimony whereof I have hereunto set my hand and official seal the day and year last above written.


(Seal)



Notary Public



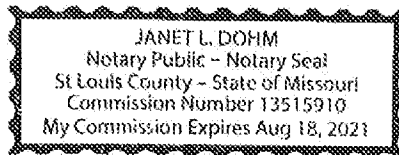
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal on the date set after my signature.

I, , dated this 2nd day of November, 2017.
James Richard Spieker, Jr.

ACKNOWLEDGEMENT

On this 2nd day of November, 2017 before me personally appeared **James Richard Spieker, Jr.** to me known to be the person described in and who executed the foregoing instrument, and acknowledge that he executed the foregoing instrument, and acknowledge that he executed the same as his free act and deed. In testimony whereof I have hereunto set my hand and official seal the day and year last above written.

(Seal)




 Notary Public