

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6388307

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
LUIS ANTONIO M.M. BARBOSA	12/06/2019
SVEN V. GERRITSEN	12/06/2019
MARTINUS J.A. SCHACKMANN	12/06/2019
PAUL A. GRONLAND	11/18/2019
BRIAN HIERHOLZER	11/19/2019
RECEIVING PARTY DATA	
Name:	CURIUM US LLC
Street Address:	111 WESTPORT PLAZA
City:	ST. LOUIS
State/Country:	MISSOURI
Postal Code:	63146
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16405703
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
Correspondent Name:	PATENT DOCKET DEPARTMENT ARMSTRONG TEASD
Address Line 1:	7700 FORSYTH BOULEVARD
Address Line 2:	SUITE 1800
Address Line 4:	ST. LOUIS, MISSOURI 63105
ATTORNEY DOCKET NUMBER:	35800-112 (C-NL-003)
NAME OF SUBMITTER:	MICHAEL G. MUNSELL
SIGNATURE:	/Michael G. Munsell/
DATE SIGNED:	11/06/2020
Total Attachments: 14	

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ASSIGNMENT

WHEREAS, I Luis Antonio M.M. Barbosa of Bergen, Netherland, Sven V. Gerritsen of Alkmaar, Netherlands, Martinus J.A. Schackmann of Heiloo, Netherlands, Paul A. Gronland of Chesterfield, Missouri, and Brian Hierholzer of Lake St. Louis, Missouri have invented the subject matter described in U.S. Non-Provisional Patent Application Serial No. 16/405,703 filed in the United States Patent and Trademark Office on May 7, 2019, and U.S. Provisional Patent Application Serial No. 62/668,688 filed in the United States Patent and Trademark Office on May 8, 2018, each entitled **SYSTEMS AND METHODS FOR PRODUCTION OF XENON-133** (hereafter, the "invention").

WHEREAS, Curium US LLC, 111 Westport Plaza, Suite 800, St. Louis, Missouri 63146, 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 Curium US 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 Curium US LLC, as assignee of our entire interest.

I further agree, without any payment by Curium US LLC other than expenses incurred by the undersigned, to communicate to Curium US 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 legal proceedings, whenever

requested; and execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective.

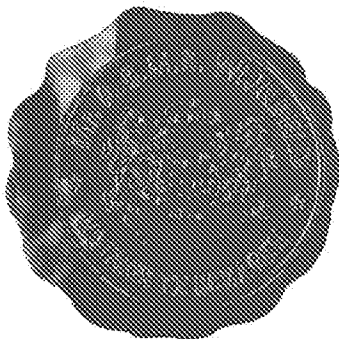
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal on the date set after my signature.

I, *Luis Antonio M.M. Barbosa*, dated this 06 day of December, 2019.
Luis Antonio M.M. Barbosa

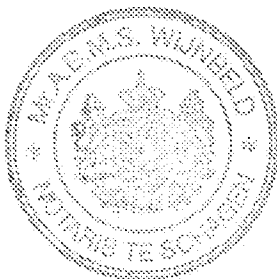
ACKNOWLEDGEMENT

On this 6th day of December, 2019 before me personally appeared **Luis Antonio M.M. Barbosa** 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)




[Signature]
 Notary Public



Wijnveld Netwerk Notarissen
 Bregweid 4b te Warmenhuizen
 Postbus 80 1870 AB Schoorl
 Tel.: 0226 - 390033
 Fax: 0226 - 393806

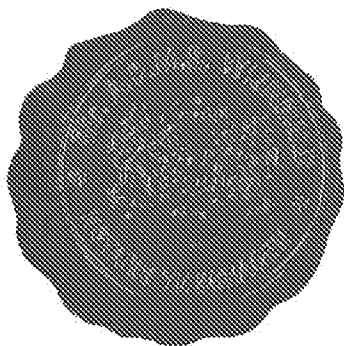
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal on the date set after my signature.

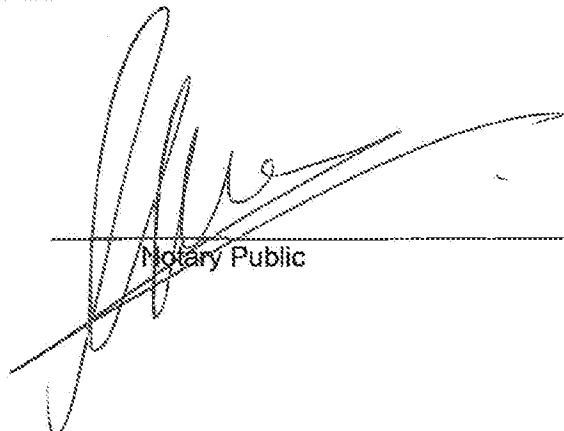
I,  dated this 6 day of 12, 2019.
Sven V. Gerritsen

ACKNOWLEDGEMENT

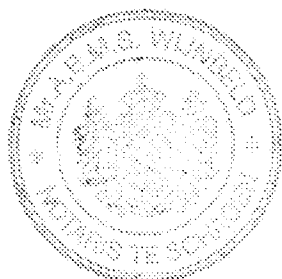
On this 6th day of December, 2019 before me personally appeared **Sven V. Gerritsen** to me known to be the person described in and who executed the foregoing instrument, and acknowledge that he executed the foregoing instrument, and acknowledge that he executed the same as his free act and deed. In testimony whereof I have hereunto set my hand and official seal the day and year last above written.

(Seal)



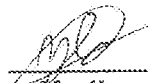


Notary Public



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

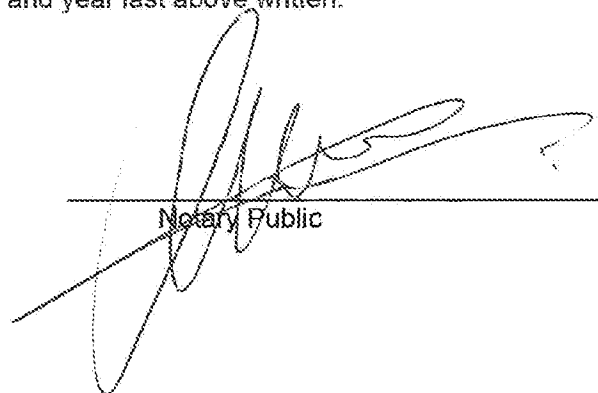
I, , dated this 6 day of 12, 2019.
Martinus J.A. Schackmann

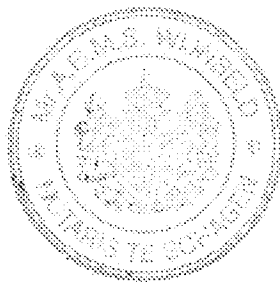
ACKNOWLEDGEMENT

On this 0th day of December, 2019 before me personally appeared **Martinus J.A. Schackmann** 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



Wijnbeld Netwerk Notarissen
Bregweid 4b te Warmenhuizen
Postbus 80 1870 AB Schoorl
Tel.: 0226 - 390033
Fax: 0226 - 393806

Koninklijke Notariële
Beroepsorganisatie

VIS

Toetsingsgegevens

Referentie	KJ
Debiteurnummer	101612
Verzenddatum	06-12-2019
Verzendtijd	09:31

Documentgegevens

Document type	Nederlands en buitenlands PASPOORT en EUROPESE identiteitskaart
Land van uitgifte	Portugal
Documentnummer	30491919

Resultaat toetsing

Status	het document staat NIET als vermist geregistreerd
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Koninklijke Notariële
Beroepsorganisatie

VIS

Toetsingsgegevens

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Debiteurnummer	101612
Verzenddatum	06-12-2019
Verzendtijd	12:17

Documentgegevens

Document type	Nederlands en buitenlands PASPOORT en EUROPESE identiteitskaart
Land van uitgifte	Nederland
Documentnummer	IN4277R71

Resultaat toetsing

Status	het document staat NIET als vermist geregistreerd
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Koninklijke Notariële
Beroepsorganisatie

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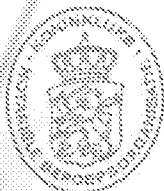
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Verzendtijd	11:40

Documentgegevens

Document type	Nederlands en buitenlands PASPOORT en EUROPESE identiteitskaart
Land van afgifte	Nederland
Documentnummer	NS47DHCR9

Resultaat toetsing

Status	het document staat NIET als vermist geregistreerd
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Seen for legalisation of the signature of:

1. **Miguel Marques Barbosa**, born at the 1st day of March 1964, bearer of a Portuges citizen card number: 30491919;
2. **Sven Viktor Gerritsen**, born at the 15th day of March 1991, bearer of a Dutch identity card number: IN4277R71;
3. **Martinus Johannes Adrianus Schackmann**, born at the 3d day of September 1982, bearer of a Dutch passport number: NS47DHCR9,

by me mr. Anna Bernarda Maria Sylvestra Wijnbeld, civil law notary, practising at Warmenhuizen, municipality Schagen (The Netherlands), this 6th day of December 2019.



ASSIGNMENT

WHEREAS, I **Luis Antonio M.M. Barbosa of Bergen, Netherland, Sven V. Gerritsen of Alkmaar, Netherlands, Martinus J.A. Schackmann of Heiloo, Netherlands, Paul A. Gronland of Chesterfield, Missouri, and Brian Hierholzer of Lake St. Louis, Missouri** have invented the subject matter described in U.S. Non-Provisional Patent Application Serial No. **16/405,703** filed in the United States Patent and Trademark Office on **May 7, 2019**, and U.S. Provisional Patent Application Serial No. **62/668,688** filed in the United States Patent and Trademark Office on **May 8, 2018**, each entitled **SYSTEMS AND METHODS FOR PRODUCTION OF XENON-133** (hereafter, the "invention").

WHEREAS, Curium US LLC, 111 Westport Plaza, Suite 800, St. Louis, Missouri 63146, 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 Curium US 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 Curium US LLC, as assignee of our entire interest.

I further agree, without any payment by Curium US LLC other than expenses incurred by the undersigned, to communicate to Curium US 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 legal proceedings, whenever

requested; and execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective.

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

I, _____, dated this _____ day of _____, 2019.
Luis Antonio M.M. Barbosa

Witnessed by: _____
Signature

Printed Name of Witness

Witnessed by: _____
Signature

Printed Name of Witness

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

I, _____, dated this _____ day of _____, 2019.
Sven V. Gerritsen

Witnessed by: _____
Signature

Printed Name of Witness

Witnessed by: _____
Signature

Printed Name of Witness

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

I, _____, dated this _____ day of _____, 2019.
Martinus J.A. Schackmann

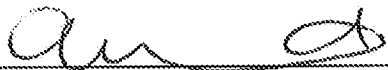
Witnessed by: _____
Signature

Printed Name of Witness

Witnessed by: _____
Signature

Printed Name of Witness

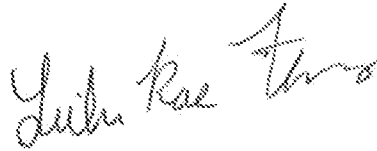
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal on the date set after my signature.

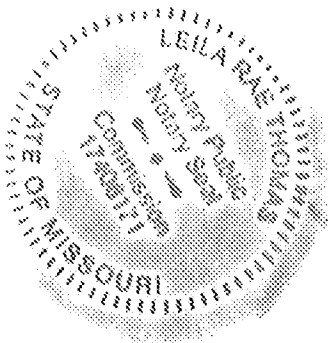
I, , dated this 18 day of November, 2019.
Paul A. Gronland

ACKNOWLEDGEMENT

On this 18 day of November, 2019 before me personally appeared **Paul A. Gronland** 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)





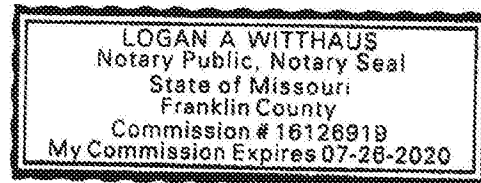
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal on the date set after my signature.

I, Brian Hierholzer, dated this 19 day of November, 2019.
 Brian Hierholzer

ACKNOWLEDGEMENT

On this 19th day of November, 2019 before me personally appeared Brian Hierholzer 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