Mail Stop Assignment Recordation Services Director of the US Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

Atty. Ref.: 4443

Please record the attached original document or copy thereof.

Name of Conveying Party(ies): (1) Denis Prodius

(2) Cajetan Ikenna Nlebedim

Name and Address of Receiving Party(ies):

Iowa State University Research Foundation, Inc. 1805 Collaboration Place, Suite 2100 Ames, Iowa 50010

Nature of Conveyance:

[X] Assignment

Execution Dates of Document: (1) August 22, 2018

(2) August 22, 2019

If this document is being filed together with a new application, the execution date of the application is:

Patent Application Numbers: 62/495,211

Patent Numbers:

15/998,079

Total Number of Applications and Patents Involved: 2. A credit card form is enclosed to cover the recording fee of \$100.00. The Commissioner is hereby authorized to charge any deficiency in the recording fee to my Deposit Account No. 20-1124.

Mail correspondence concerning

526 W. 14th Street

The documents to:

Traverse City, MI 49684 Tel: (269) 330-0328

Fax: (231) 346-5900

To the best of my knowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of the original document.

Respectfully submitted,

Encl: Assignments (2)

Edward J. Tipmer, Reg. No. 27402

Total number of pages, including cover

sheet and assignment 3

REEL: 053312 FRAME: 0757

PATENT

700521589

To:

ASSIGNMENT

WHEREAS, We, (1) Anja-Verena Mudring; (2) Denis Prodius; and (3) Cajetan Ikenna Nlebedim; hereinafter called "ASSIGNORS", residing at (1) Stockholm University, Svante Arrhenius vag 16c, Stockholm, Sweden 106 91; (2); 301 S. 5th Street-apt 390, Ames, Iowa 50010and (3) 5506 Maryland Street, Ames, Iowa 50014 have invented certain new and useful improvements in "DISSOLUTION AND SEPARATION OF RARE EARTH METALS" for which utility application Serial No. 15/998,079 was filed on June 25, 2018, PCT application PCT/US2017/000052 was filed August 29, 2017, and provisional application Serial No. 62/495,211 was filed on September 6, 2016, for United States Letters Patent; and

WHEREAS, Iowa State University Research Foundation, Inc., hereinafter called "ASSIGNEE", having a place of business at 1805 Collaboration Place, Suite 2100, Ames, Iowa 50010 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefor in the United States and in any and all foreign countries.

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, the receipt whereof is hereby acknowledged, and other valuable consideration, We the ASSIGNORS have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said ASSIGNEE the full and exclusive right to said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries; in and to any and all conversions, divisions, reissues, continuations and extensions thereof; and in and to a PCT application to be filed.

We hereby authorize and request the Patent Office Officials in the United States and in any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of the entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successors and assigns.

FURTHER, we agree that we will communicate to said ASSIGNEE or its representative any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all conversion, divisional, continuation, substitution, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths or declarations, and generally cooperate with said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.

The state of the s	Signed:	
Date		Anja-Verena Mudring
08/22/2012	Signed:	Chrodried -
Date		Denis Prodius
	Signed:	
Date		Cajetan Ikenna Nlebedim
Witness: Male V.		
Noah Welch 8/22/18		
Name of Witness Printed Date		
Witness: With		
KINTAL GANDHA 8/22/18 Name of Witness Printed Date		
TOTAL TRANSPORTER		
Witness:		
Name of Witness Printed Date		

To:

ASSIGNMENT

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Date	Signed:	Anja-Verena Mudring
Date	Signed:	Denjis-Prodius
8193/2018 Date	Signed:	Cajetan Ikenna Niebedim
Witness: Will Herman 8/23/18 Name of Witness Printed Date		
Witness: Acruides Brodepall Jennifer Bindcoch for 8/23/18 Name of Witness Printed Date	Don	
Witness:		
Name of Witness Printed Date		

PATENT REEL: 053312 FRAME: 0759 To: Page 2 of 7 2020-07-27 13:02:36 (GMT) 12313465900 From: ed timmer

IN THE US PATENT AND TRADEMARK OFFICE
July 27, 2020

Inventors: Denis Prodius et al.

Title : DISSOLUTION AND SEPARATION OF RARE EARTH METALS

Serial No.: 15/998,079 Group: 1732

Filed: February 6, 2014 Confirmation No: 3017

Assignment Recordation Branch Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

FIRST STATUS REQUEST FOR ASSIGNMENT RECORDATION

Dear Sir:

On June 23, 2020, the undersigned submitted a Recordation Form Cover Sheet and Assignment document for recording along with the fee of \$100.00. A copy of these papers is enclosed.

To-date, a Notice of Recordation has not been received and the assignment has not been recorded per the USPTO assignment site.

Please advise when the undersigned will receive the requested Notice of Recordation.

Respectfully submitted,

Edward J. Timmer

Reg. No. 27 402

Customer No. 47359

USSN 15/998,079

CERTIFICATE OF FACSIMILE TRANSMISSION

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent Office to number 1-571-273-0140 on July 27, 2020.

Edward J. (Timmer

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To: Page 1 of 7 2020-07-27 13:02:36 (GMT) 12313465900 From: ed timmer

FAX COVER SHEET

ТО	
COMPANY	
FAXNUMBER	15712730140
FROM	edtimmer
DATE	2020-07-27 13:02:00 GMT
RE	USPatent 10,648,063- USSN 15/998,079-assignment
recordal status	

COVER MESSAGE

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RECORDED: 07/27/2020

PATENT REEL: 053312 FRAME: 0762