

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT4992912

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
RICHARD LUEPTOW	06/05/2018
PAUL B. UMBANHOWAR	05/23/2018
YI FAN	05/23/2018
RECEIVING PARTY DATA	
Name:	NORTHWESTERN UNIVERSITY
Street Address:	633 CLARK STREET
City:	EVANSTON
State/Country:	ILLINOIS
Postal Code:	60208
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15984533
CORRESPONDENCE DATA	
Fax Number:	(312)236-8176
<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:	312-236-8500
Email:	docket@cookalex.com
Correspondent Name:	COOK ALEX LTD.
Address Line 1:	200 WEST ADAMS STREET
Address Line 2:	SUITE 2850
Address Line 4:	CHICAGO, ILLINOIS 60606
ATTORNEY DOCKET NUMBER:	1851-0047.01
NAME OF SUBMITTER:	DAVID M. THIMMIG
SIGNATURE:	/David M. Thimmig/
DATE SIGNED:	06/06/2018
Total Attachments: 5	
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ASSIGNMENT

U.S. Serial No: 15/984,533 Filing Date: May 21, 2018
Inventors: Richard Lueptow; Paul B Umbanhowar; Yi Fan
Title of U.S. Patent Application: Devices for and Methods of Forming Segregated Layers from
Mixtures of Granular Materials

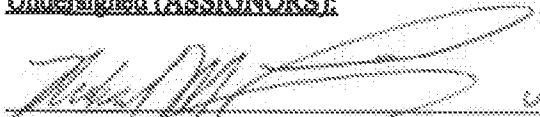
For good and valuable consideration, the receipt and sufficiency of which are hereby agreed, each of the undersigned hereby assigns to Northwestern University, an Illinois not-for-profit corporation, having a place of business at 633 Clark Street, Evanston, Illinois 60208 and its successors and assigns ("Assignee") the entire right, title and interest in and to the inventions of such undersigned disclosed in the application listed above, and in any and all other applications anywhere in the world which the undersigned may file and/or be named as an inventor of, solely or jointly, on said inventions, in any and all patents which may be obtained on any of said applications and in any and all reissues, reexaminations, supplemental examinations, inter partes reviews, oppositions, post-grant reviews, supplementary protection certificates and/or extensions thereof, including without limitation, the right to bring suit and to claim and retain all damages and/or seek other remedies for the past, present and future infringement of any of the foregoing, the right of priority, including without limitation to claim priority benefit of or to said patent applications, and request the Commissioner for Patents in the United States and similar authorities outside the United States to issue said patents to and in the name of the Assignee.

Each of the undersigned states that the application listed above is or was made or authorized to be made by him or her. Each of the undersigned believes himself or herself to be the original inventor or a joint inventor with another undersigned of a claimed invention in the application listed above. Each of the undersigned acknowledges that any willful false statement made by him or her in this paragraph is punishable under 18 U.S.C. §1001 by fine or imprisonment of not more than five years, or both.

Except in favor of Assignee, each of the undersigned warrants that: (i) he or she is the owner of all its rights, titles and interests herein assigned and has the right to make this unconditional and irrevocable assignment to Assignee without obtaining any approval or permission of a third party; and (ii) there are no outstanding encumbrances, liens, prior assignments, licenses, or other obligations or restrictions on the rights, titles and interests herein assigned.

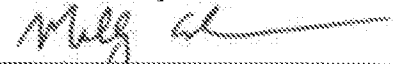
Upon the request of Assignee and at no expense to the undersigned, each of the undersigned hereby agrees to execute any and all applications on said inventions, including without limitation for the reissue, reexamination, supplementary protection certificate or extension thereof and any oath, declaration or affidavit relating thereto that said Assignee may deem necessary or expedient, and to cooperate to the best of the ability of the undersigned with and perform any and all affirmative acts requested by Assignee to prepare, file, prosecute, maintain, defend, enforce and vest in Assignee the rights, titles and interests assigned herein, including without limitation, preparing and executing statements and giving and producing evidence in support thereof, whereby said rights, titles and interests will be held and enjoyed by said Assignee to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

Undersigned (ASSIGNORS):


Inventor Name Richard Luepfow DATE June 5, 2018

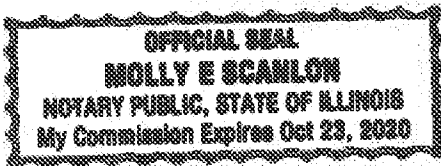
State of Illinois
County of Cook ss.

On this 5 day of June, 2018, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and purposes therein expressed.


NOTARY PUBLIC

[NOTARY SEAL]

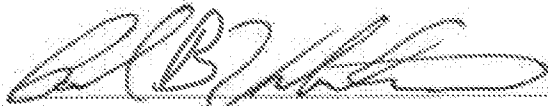
My Commission Expires: 10/23/2020



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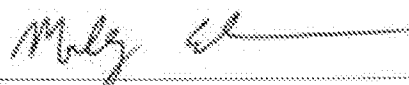
U.S. Serial No: 15/984,533
Filing Date: May 21, 2018
Inventors: Richard Lueptow; Paul B Umbanhowar; Yi Fan
Title of U.S. Patent Application: Devices for and Methods of Forming Segregated Layers from Mixtures of Granular Materials

Undersigned (ASSIGNORS) continued:

 5/23/18
Inventor Name: Paul B. Umbanhowar DATE

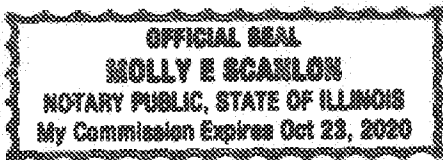
State of Illinois
County of Cook ss.

On this 23 day of May, 2018, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and purposes therein expressed.


NOTARY PUBLIC

[NOTARY SEAL]

My Commission Expires: 10/23/2020



WITNESS PAGE - EXECUTION OF ASSIGNMENT

Serial No: 15/984,533


Filing Date: May 21, 2018

Title of U.S. Patent Application: Devices for and Methods of Forming Segregated Layers from Mixtures of Granular Materials

Inventors: Richard Lueptow; Paul B Umhanhowar; Yi Fan

Invention Manager: Arjan Quist, Ph.D.

Our Internal Reference: 2017-041-02

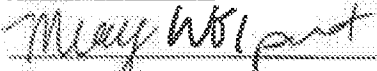


(Signature)

INVENTOR PRINTED NAME: Yi Fan

DATE OF EXECUTION: 05-23-18

FIRST WITNESS:



(Signature)

Printed Name: Meagan Wolpert

Witness Date: 5-23-18

Home Address:

7282 Middle Rd

Hope MI 48628

USA

SECOND WITNESS:



(Signature)

Printed Name: YANG, YANG

Witness Date: 5-23-18

Home Address:

3021 Rocky Point Dr

Pearland, Tx 77584

USA

U.S. Serial No: 15/984,533

Filing Date: May 21, 2018

Inventors: Richard Lueptow; Paul B Umbanhowar; Yi Fan

Title of U.S. Patent Application: Devices for and Methods of Forming Segregated Layers from Mixtures of Granular Materials

ASSIGNEE ACCEPTANCE: Northwestern University:

On behalf of Northwestern University, Assignee, the authorized signatory below, hereby confirms Assignee's acceptance of all rights, privileges, titles and interests conveyed by this Assignment.

Authorized Signature: _____



Date: _____

6/5/2018

Printed Name

Lolita Buckingham, Invention Specialist or
Heather Fletcher, Manager of INVO Docketing & Compliance

Department: Innovation and New Ventures Office (INVO)