

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HYUNG-JIN SUNG	03/07/2017
BYUNG-HANG HA	03/07/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY
<b>Street Address:</b>	(GUSEONG-DONG) 291, DAEHAK-RO, YUSEONG-GU
<b>City:</b>	DAEJEON
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>Postal Code:</b>	34141
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15510071
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(703)712-8525
<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>	
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<b>Address Line 1:</b>	8201 GREENSBORO DRIVE, SUITE 1060
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<b>ATTORNEY DOCKET NUMBER:</b>	0145-KA04US1
<b>NAME OF SUBMITTER:</b>	SCOTT M. WOODHOUSE
<b>SIGNATURE:</b>	/Scott M. Woodhouse #54747/
<b>DATE SIGNED:</b>	03/09/2017
<b>Total Attachments: 5</b>	
source=executed_0145-KA04US1_Assignment-uspto#page1.tif	
source=executed_0145-KA04US1_Assignment-uspto#page2.tif	
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source=0145-KA04US1_3_73c_Statement#page2.tif	
source=0145-KA04US1_3_73c_Statement#page3.tif	

**ASSIGNMENT**

WHEREAS, **Hyung-Jin SUNG** and **Byung-Hang HA** (“Assignor”) hereby irrevocably sells, transfers, conveys, and assigns to **Korea Advanced Institute of Science and Technology.**, with principal offices located at (Guseong-dong) 291, Daehak-ro, Yuseong-gu, Daejeon 34141, Republic of Korea (“Assignee”) their entire right, title and interest for the United States of America and its territorial possessions and all other countries and patent regions, including all rights of priority and rights to recover for infringement, in the invention(s) disclosed in the patent application entitled:

**METHOD FOR SEPARATING AND WASHING OF MICROPARTICLES VIA A STRATIFIED COFLOW OF NON-NEWTONIAN AND NEWTONIAN FLUIDS**

for which International Appl. No. PCT/KR2016/006991 was filed June 30, 2016, claiming priority to Korean Appl. No. 10-2016-0008170, filed January 22, 2016; and

Assignee is desirous of securing Assignors’ entire right, title, and interest in and to this invention in all countries throughout the world, and in and to any application of United States Letters Patent on this invention and the Letters Patent to be issued that may claim priority to this application together with the entire right, title, and interest in and to all patents and patent applications that claim priority thereto as well as all divisional, continuation, continuation-in-part, reissue, reexamination, extension or other applications based in whole or in part thereon or that claim priority or are related by terminal disclaimer thereto or therefrom, and all Letters Patent of the United States and all other countries and patent regions worldwide that may or shall be granted on said inventions, or any parts thereof (“Assignment”).

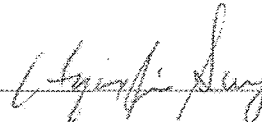
NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, Assignor, has sold, assigned, transferred, and set over, and does hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, his entire right, title, and interest in and to this invention and this application, and all divisions, continuations, continuations-in-part thereof, and all Letters Patent of the United States, which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such applications, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and Assignors hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent of this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, ASSIGNOR HEREBY covenants that it has the full right to convey the interest assigned by this Assignment, and it has not executed and will not execute any agreement in conflict with this Assignment;

AND, ASSIGNOR HEREBY further covenants and agrees that it will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to Assignee respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, continuation-in-part, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

*[Remainder of page left blank]*

Assignor hereby executes this Assignment.

By:  Date: Mar. 7 2017

Name: Hyung-jin SUNG  
Guseong-dong, Korea Advanced Institute of Science and Technology  
291, Daehak-ro, Yuseong-gu, Daejeon 34141  
Republic of Korea

By:  Date: Mar. 7 2017

Name: Byung-Hang HA  
Guseong-dong, Korea Advanced Institute of Science and Technology  
291, Daehak-ro, Yuseong-gu, Daejeon 34141  
Republic of Korea

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**STATEMENT UNDER 37 CFR 3.73(c)**Applicant/Patent Owner: Hyung-Jin SUNG et al.Application No./Patent No.: To be assigned Filed/Issue Date: \_\_\_\_\_Titled: Method For Separating And Washing Of Microparticles Via A Stratified Coflow Of Non-Newtonian And Newtonian FluidsKorea Advanced Institute of Science and Technology, a university

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1.  The assignee of the entire right, title, and interest.
2.  An assignee of less than the entire right, title, and interest (check applicable box):
- The extent (by percentage) of its ownership interest is \_\_\_\_\_%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

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Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3.  The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

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Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4.  The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

- A.  An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
- B.  A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**PATENT**  
**REEL: 041530 FRAME: 0472**

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**STATEMENT UNDER 37 CFR 3.73(c)**

3. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
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4. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
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5. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
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6. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet(s).

As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Scott M. Woodhouse #54747/

March 9, 2017

Signature

Date

Scott M. Woodhouse

54747

Printed or Typed Name

Title or Registration Number

## Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.