

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Winnie Chu-Hui Chu</td> <td>11/21/2011</td> </tr> <tr> <td>Boris Stoeber</td> <td>11/03/2011</td> </tr> <tr> <td>Allison Schaap</td> <td>11/15/2011</td> </tr> </tbody> </table>		Name	Execution Date	Winnie Chu-Hui Chu	11/21/2011	Boris Stoeber	11/03/2011	Allison Schaap	11/15/2011
Name	Execution Date								
Winnie Chu-Hui Chu	11/21/2011								
Boris Stoeber	11/03/2011								
Allison Schaap	11/15/2011								
RECEIVING PARTY DATA									
Name:	The University of British Columbia								
Street Address:	103 - 6190 Agronomy Road								
Internal Address:	Industry Liaison Office								
City:	Vancouver								
State/Country:	CANADA								
Postal Code:	V6T 1Z3								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13882092</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13882092				
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Application Number:	13882092								
CORRESPONDENCE DATA									
Fax Number:	6046814081								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	(604)669-3432								
Email:	GNMdocket@patentable.com								
Correspondent Name:	Oyen Wiggs Green & Mutala LLP								
Address Line 1:	480 - The Station, 601 W. Cordova St.								
Address Line 4:	Vancouver, CANADA V6B 1G1								
ATTORNEY DOCKET NUMBER:	U008 0902/GNM								
NAME OF SUBMITTER:	Gavin N. Manning								
Signature:	/GavinNManning/								

Date:

04/26/2013

**Total Attachments: 5**

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**ASSIGNMENT OF INVENTIONS AND RELATED PATENT RIGHTS**

WHEREAS THE FOLLOWING PERSON OR PERSONS:

**Winnie Chu-Hui Chu**  
P.O. Box 525, 130 Oceanview Place  
Lions Bay, British Columbia  
V0N 2E0  
Canada

**Boris Stoeber**  
313 - 1890 West 6<sup>th</sup> Avenue  
Vancouver, British Columbia  
V6J 1R6  
Canada

**Allison Schaap**  
~~841 West 18<sup>th</sup> Avenue~~  
~~Vancouver, British Columbia~~  
~~V5Z 1W2~~  
Canada

*8570 Flowering Place  
Burnaby, British Columbia  
V5A 4B4  
Canada*

*AS -  
Nov. 15, 2011*

each, an Assignor, whose full post office address is set out above, is the inventor of certain inventions or improvements (the "Inventions") described and/or claimed in:

- United States Patent Application No. 61/408561 entitled **MICROCHANNEL-BASED METHODS AND APPARATUS FOR DETECTING AIRBORNE PARTICLES** filed on 29 October 2010; and,
- PCT International Patent Application No. PCT/CA2011/050681 entitled **METHODS AND APPARATUS FOR DETECTING PARTICLES ENTRAINED IN FLUIDS** filed 28 October 2011 (the "Applications");

AND WHEREAS, The University of British Columbia (the "Assignee"), whose full post office address is University-Industry Liaison Office, 103 - 6190 Agronomy Road, Vancouver, British Columbia, V6T 1Z3, Canada, wishes to own the entire worldwide right, title, and interest in and to: the Inventions, the Applications, and all patents which may be granted on or as a result thereof in all countries;

In consideration of ONE (\$1.00) DOLLAR and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, each Assignor, does hereby, sell, assign, transfer, and set over to the Assignee the entire worldwide right, title, and interest in and to:

- the Inventions;
- the Applications;
- all continuations, divisions, renewals of, or substitutes for the Applications;
- the right to file counterparts to the Applications in all countries and regions;
- the right to claim priority from the Applications in all countries and regions;
- each and every additional application that claims any part of the Inventions;
- each and every additional application that is in any way based on or claims priority from or corresponds to the Applications;
- all patents which may be granted on or as a result thereof; and
- any reissue or reissues of such patents;

the same to be held and enjoyed by the Assignee, its successors, assigns, nominees, or legal representatives, to the full end of the term or terms for which such patents respectively may be granted, reissued, or extended, as fully and entirely as the same would have been held and enjoyed by the Assignor(s), had this Assignment, sale, and transfer not been made. If there

are two or more Assignors, the sale, assignment, and transfer is made both jointly and severally.

Each Assignor hereby covenants that he or she: has full right to convey the entire interest herein assigned; has not encumbered the rights and properties transferred by this Assignment in any manner; and has not executed and will not execute any agreement to transfer any rights in the Inventions and/or the Applications to anyone other than the Assignee; or that is otherwise in conflict herewith.

Each Assignor promises that he or she shall:

- each time a request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to the Inventions, the Applications, and the patents in the Assignee, its successors, assigns, nominees, or legal representatives;
- each time a request is made and without undue delay execute and deliver such additional papers the Assignee considers to be necessary or desirable for use in: prosecution of the applications; interference proceedings involving the applications or patents; oppositions involving the applications or patents; applications to reissue or re-examine the patents; or filing additional applications to protect the Inventions in any country;
- communicate to the Assignee, or its nominees, all known facts respecting the Inventions, the Applications, and said patents and assist in the ascertainment of facts and the production of evidence relating to the Inventions, the applications, or the patents;
- testify in any legal proceedings;
- sign all lawful papers;
- execute all disclaimers and divisional, continuing, reissue, and foreign applications;
- make all rightful oaths; and
- generally to do everything possible to aid the Assignee, its successors, assigns, nominees, and legal representatives to obtain and enforce for its or their own benefit, proper patent protection for the Inventions in all countries;

all at the expense, however, of the Assignee or its successors, assigns, nominees, or legal representatives.

Each Assignor hereby irrevocably designates and appoints the Assignee and its duly authorized officers and agents, and their successors, as his or her agents and attorneys-in-fact, to act on the Assignor(s)'s behalf and instead of the Assignor(s), to execute and file applications to patent the Inventions in all countries, and to do all other proper lawfully permitted acts to further the assignment, prosecution, and issuance of patents for the Inventions with the same legal force and effect as if executed by the Assignor(s). This power of attorney shall be deemed coupled with an interest and is irrevocable.

Each Assignor hereby authorizes and requests any official of any country or countries whose duty it is to issue patents on applications to issue to the Assignee, its successors, assigns, nominees, or legal representatives all patents for the Inventions in accordance with the terms of this Assignment.

EXECUTED at Vancouver British Columbia Canada this 21 day of November, 2011.  
(city) (province/state) (country) (date)  
(month)

SIGNED, SEALED & DELIVERED  
by **Winnie Chu-Hui Chu**  
in the presence of:

[Signature]  
Signature of Witness

ALEXANDRA BARZAN  
Print Witness's Name

605-4380 HALIFAX ST.  
BURNABY, B.C., V5C 6R3  
Print Witness's Address

RESEARCH ASSISTANT  
Print Witness's Occupation

[Signature]  
**Winnie Chu-Hui Chu**

EXECUTED at \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011.  
(city) (province/state) (country) (date)  
(month)

SIGNED, SEALED & DELIVERED  
by **Boris Stoeber**  
in the presence of:

\_\_\_\_\_  
Signature of Witness

\_\_\_\_\_  
Print Witness's Name

\_\_\_\_\_  
Print Witness's Address

\_\_\_\_\_  
Print Witness's Occupation

\_\_\_\_\_  
**Boris Stoeber**

Each Assignor hereby authorizes and requests any official of any country or countries whose duty it is to issue patents on applications to issue to the Assignee, its successors, assigns, nominees, or legal representatives all patents for the Inventions in accordance with the terms of this Assignment.

EXECUTED at \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2011. (city) (province/state) (country) (date) (month)

SIGNED, SEALED & DELIVERED by Winnie Chu-Hui Chu in the presence of:

Signature of Witness

Print Witness's Name

Print Witness's Address

Print Witness's Occupation

Winnie Chu-Hui Chu

EXECUTED at Vancouver, BC, Canada this 3rd day of November, 2011. (city) (province/state) (country) (date) (month)

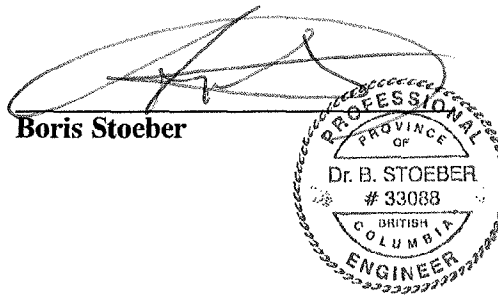
SIGNED, SEALED & DELIVERED by Boris Stoeber in the presence of:

Signature of Witness (Karen Cheung)

Print Witness's Name (KAREN CHEUNG)

Print Witness's Address (2332 MAIN MALL, VANCOUVER, BC V6T 1Z4)

Print Witness's Occupation (PROFESSOR)



Boris Stoeber

EXECUTED at Eindhoven, North Brabant, the Netherlands this 15<sup>th</sup> day of November, 2011.  
(city) (province/state) (country) (date)  
(month)

SIGNED, SEALED & DELIVERED  
by Allison Schaap  
in the presence of:



\_\_\_\_\_  
Signature of Witness

CLARE HOOPER

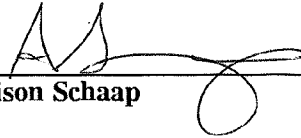
\_\_\_\_\_  
Print Witness's Name

PISANO STRAAT 552, 5623CA  
EINDHOVEN, THE NETHERLANDS

\_\_\_\_\_  
Print Witness's Address

COMPUTER SCIENTIST

\_\_\_\_\_  
Print Witness's Occupation



\_\_\_\_\_  
Allison Schaap