

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4585716

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| RYAN MURRAY HICKEY | 09/08/2016 |
| DYLAN LOGAN | 09/08/2016 |
| CHRISTOPHER JAMES BROOKS | 09/08/2016 |
| RECEIVING PARTY DATA | |
| Name: | RANOVUS INC. |
| Street Address: | 16 FITZGERALD ROAD |
| Internal Address: | SUITE 100 |
| City: | OTTAWA |
| State/Country: | CANADA |
| Postal Code: | K2H 8R6 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15699142 |
| CORRESPONDENCE DATA | |
| Fax Number: | (416)920-1350 |
| <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: | 416-920-8170 |
| Email: | tchokrev@pckip.com |
| Correspondent Name: | PERRY + CURRIER INC. |
| Address Line 1: | 1300 YONGE STREET |
| Address Line 2: | SUITE 500 |
| Address Line 4: | TORONTO, CANADA M4T-1X3 |
| ATTORNEY DOCKET NUMBER: | P5490US01 |
| NAME OF SUBMITTER: | ZOYA TCHOKREV |
| SIGNATURE: | /Zoya Tchokrev/ |
| DATE SIGNED: | 09/08/2017 |
| Total Attachments: 5 | |
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WORLD-WIDE PATENT ASSIGNMENT

FROM

**Ryan Murray HICKEY
Dylan LOGAN
Christopher James BROOKS**

Assignors

TO

RANOVUS INC.

Assignee

1. DEFINITIONS

a) "Assignors" mean:

Ryan Murray HICKEY, an individual having an address at **654 Birchland Crescent, Stittsville, Ontario, Canada, K2S 1Z5**;

Dylan LOGAN, an individual having an address at **1244 Randall Ave., Ottawa, Ontario, Canada, K1H 7R1**;

Christopher James BROOKS, an individual having an address at **360 Bamburg Way, Nepean, Ontario, Canada, K2J 6A7**;

Where the foregoing list only includes one individual, corporation or other entity, then the term "Assignors" as used herein shall be construed in the singular form "Assignor".

b) "Assignee" means: **RANOVUS INC.**, a corporation organized under the laws of the province of Ontario, having a place of business at **16 Fitzgerald Road, Suite 100, Ottawa, K2H 8R6, Canada**, including its successors and assigns.

c) "Invention" means an invention made by the Assignors and entitled, **AN OPTICAL RING RESONATOR STRUCTURE WITH A BACKSIDE RECESS**

d) "Rights to the Invention" means, without limitation, all rights, titles, interests and claims of any nature in and to:

- i) the Invention for Canada, the United States of America and all other foreign jurisdictions;
- ii) all Patent Applications for the Invention for Canada, the United States of America and all other foreign jurisdictions ("Patent Applications");
- iii) all Letters Patent that may be obtained for the Patent Applications ("Issued Patents");
- iv) all continuations, continuations-in-part, re-examinations, reissues, requests for continued examination (RCE) and divisions of the Patent Applications and/or Issued Patents; and,
- v) the right to claim priority under International Convention and/or Treaties for the Patent Applications and/or Issued Patents.

2. BACKGROUND

- a) The Assignee wishes to acquire the Rights to the Invention from the Assignors.
- b) Each of the parties agrees to be bound by the provisions of this Assignment.
- c) This Assignment replaces and supersedes any prior Assignments, whether oral or in writing, made between the parties, or any of them.

3. THE INVENTION

- a) In addition to other good and valuable consideration, Assignee paid in hand the sum of one dollar (\$1.00) to Assignors for the Rights to the Invention.
- b) Assignors hereby acknowledge the receipt and sufficiency of the consideration received from the Assignee.
- c) Assignors hereby sell, assign and transfer to the Assignee, its successors and assigns, the Assignors' Rights to the Invention.
- d) Assignors hereby authorize and request the Commissioner of Patents for Canada to issue Canadian Letters Patent for the Invention to the Assignee, for Assignee's sole use and benefit, to the full end of the term for which Canadian Letters Patent may be granted, as fully and entirely as the same would have been held by the Assignors had this Assignment not been made.
- e) Assignors hereby authorize and request the Commissioner of Patents (or the equivalent) for such other jurisdictions where Assignee files applications for the invention, to issue Letters Patent in that jurisdiction for the Invention to the Assignee, for the Assignee's sole use and benefit, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by the Assignors had this Assignment not been made.
- f) Assignors hereby undertake without liability at any time upon request to do everything legally possible to assist the Assignee in the filing and prosecution of any patent application relating to the Invention in any jurisdiction, to sign such documents and do such things as may be required to give effective legal and registered title of the Assignee to the Invention in any jurisdiction, all without further consideration but at the expense of the Assignee.

4. APPLICABLE LAW AND INTERPRETATION

- a) This Assignment is governed and is to be construed and enforced in accordance with the internal laws of the Province of Ontario, without reference to its conflicts of laws principles.
- b) The invalidity or unenforceability of any provision of this Assignment will not affect the validity or enforceability of any other provision and the Assignment will be construed as if such invalid provision were omitted.
- c) The parties agree that there are no representations, warranties, collateral Assignments or conditions affecting this Assignment other than as expressed in this Assignment.

d) The provisions of this Assignment are for the benefit of and are binding on the parties and their respective heirs, executors, administrators and assigns.

STATEMENT BY WITNESS

Signed in the presence of:

Jeff Vaughn
Having a Full Postal Address of:
15 Stroughton Cr. OTTAWA
K0A 1B0

I hereby declare that I was personally present and did see **Ryan Murray HICKEY** who is personally known to me to be the person named in the assignment herein, duly sign and execute the same.

[Signature]
Witness Signature

SIGNATURE OF ASSIGNOR

[Signature]
Ryan Murray HICKEY

08 SEPT 2016

Date of Execution

STATEMENT BY WITNESS

Signed in the presence of:

Kyle Murray

Having a Full Postal Address of:

#S15, 220 Woodridge Cr.

Ottawa, ON, K2B 8G1

I hereby declare that I was personally present and did see **Dylan LOGAN** who is personally known to me to be the person named in the assignment herein, duly sign and execute the same.



Witness Signature

SIGNATURE OF ASSIGNOR



Dylan LOGAN

8/9/16


Date of Execution

STATEMENT BY WITNESS

Signed in the presence of:

Kyle Murray
Having a Full Postal Address of:
~~Unit~~ #S15, 220 Woodridge Cr.
Ottawa, ON, K2B 8G1

I hereby declare that I was personally present and did see **Christopher James BROOKS** who is personally known to me to be the person named in the assignment herein, duly sign and execute the same.


Witness Signature

SIGNATURE OF ASSIGNOR


Christopher James BROOKS

Sept. 8, 2016

Date of Execution