

# PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Tomas Hudlicky	10/04/2011
Robert Carroll	10/06/2011
Hannes Leisch	10/06/2011
Ales Machara	10/06/2011
Lukas Werner	10/11/2011
David R. Adams	10/04/2011
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Brock University
<b>Street Address:</b>	500 Glenridge Avenue
<b>City:</b>	St. Catharines, Ontario
<b>State/Country:</b>	CANADA
<b>Postal Code:</b>	L2S 3A1
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	13264182
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(215)563-4044
<b>Phone:</b>	(215)563-4100
<b>Email:</b>	docketclerk@ddhs.com
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Correspondent Name:</b>	Kathleen D. Rigaut, Ph.D., J.D.
<b>Address Line 1:</b>	1601 MARKET STREET
<b>Address Line 2:</b>	SUITE 2400
<b>Address Line 4:</b>	PHILADELPHIA, PENNSYLVANIA 19103-2307
<b>ATTORNEY DOCKET NUMBER:</b>	2189-P05399US01

CH \$40.00 13264182

**501689565**

**PATENT**  
**REEL: 027054 FRAME: 0437**

NAME OF SUBMITTER:

Kathleen D. Rigaut, Ph.D., J.D.

**Total Attachments: 7**

source=5399US01\_Assignment#page1.tif

source=5399US01\_Assignment#page2.tif

source=5399US01\_Assignment#page3.tif

source=5399US01\_Assignment#page4.tif

source=5399US01\_Assignment#page5.tif

source=5399US01\_Assignment#page6.tif

source=5399US01\_Assignment#page7.tif

## **ASSIGNMENT**

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of all of which is hereby acknowledged, We, **Tomas Hudlicky, Robert Carroll, Hannes Leisch, Ales Machara, Lukas Werner and David R. Adams** whose addresses are **173 Lockhart Drive, St. Catharines, Ontario L2T 1W7, 88 Gonville Crescent, Stevenage, Herts SG2 9LX, United Kingdom, Am Kogl 6/2, 4866 Unterach am Attersee, Austria, Anastazova 21 Praha 6, Brevnov, 16900, Czech Republic, Chomutovska 1229, Kadan, 43201, Czech Republic and 1436 Beaverdams Road, Thorold, Ontario L2V 5B2**, hereby confirm that, as of the filing date of the PCT Application, we have sold and assigned, and do hereby sell and assign to **Brock University** whose full post office address is **500 Glenridge Avenue, St. Catharines, Ontario L2S 3A1**, as assignee, all our right, title and interest for Canada, the United States of America, and all other countries in and to an invention entitled:

### **PROCESSES FOR THE PREPARATION OF MORPHINANE AND MORPHINONE COMPOUNDS**

as described and illustrated in U.S. Provisional Application No. 61/172,521 filed April 24, 2009 and PCT Application No. PCT/CA2010/000587 filed April 22, 2010 and all our right, title and interest in and to said patent application and in and to any divisions, continuations, extensions of, and supplementary disclosures thereto, and in and to any patents that may be granted for said invention and in and to any additions or modifications to said invention.

We agree that we will without further consideration do all such things and execute all such documents as may be necessary or desirable to obtain and maintain patents for said inventions and for additions and modifications thereto in any and all countries, and to vest title thereto in said assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower said assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said invention or for additions and modifications thereto, filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

The Commissioner of Patents & Trademarks is hereby authorized and requested to issue said Letters Patent to said **Brock University**, the assignee of our entire right, title and interest in and to the same, for its sole use and benefit; and for the use and benefit of its successors and assigns, to the full end of the term for which Letters Patent may be granted, as fully and entirely as the same would have been held by us had this assignment and sale not been made.

EXECUTED, at St. Catharines, Ontario, this 4<sup>th</sup> day of October, 2011.

Josephine W Reed  
Witness

Tomas Hudlicky  
Tomas Hudlicky

EXECUTED, at \_\_\_\_\_, this \_\_\_\_ day of \_\_\_\_\_, 2011.

\_\_\_\_\_  
Witness

Robert Carroll

EXECUTED, at \_\_\_\_\_, this \_\_\_\_ day of \_\_\_\_\_, 2011.

\_\_\_\_\_  
Witness

Hannes Leisch

EXECUTED, at \_\_\_\_\_, this \_\_\_\_ day of \_\_\_\_\_, 2011.

\_\_\_\_\_  
Witness

Ales Machara

The Commissioner of Patents & Trademarks is hereby authorized and requested to issue said Letters Patent to said **Brock University**, the assignee of our entire right, title and interest in and to the same, for its sole use and benefit; and for the use and benefit of its successors and assigns, to the full end of the term for which Letters Patent may be granted, as fully and entirely as the same would have been held by us had this assignment and sale not been made.

EXECUTED, at St. Catharines, Ontario, this 4<sup>th</sup> day of

October, 2011.

Tomas Hudlicky  
Tomas Hudlicky

Josephine W Reed  
Witness

EXECUTED, at Carleton, UK, this 6<sup>th</sup> day of

October, 2011.

Robert Carroll  
Robert Carroll

[Signature]  
Witness

EXECUTED, at \_\_\_\_\_, this \_\_\_\_\_ day of

\_\_\_\_\_, 2011.

Hannes Lelsch

Witness

EXECUTED, at \_\_\_\_\_, this \_\_\_\_\_ day of

\_\_\_\_\_, 2011.

Ales Machara

Witness

The Commissioner of Patents & Trademarks is hereby authorized and requested to issue said Letters Patent to said Brock University, the assignee of our entire right, title and interest in and to the same, for its sole use and benefit; and for the use and benefit of its successors and assigns, to the full end of the term for which Letters Patent may be granted, as fully and entirely as the same would have been held by us had this assignment and sale not been made.

EXECUTED, at St. Catharines, Ontario, this 4<sup>th</sup> day of October, 2011.

Tomas Hudlicky  
Tomas Hudlicky

Josephine W. Reed  
Witness

EXECUTED, at \_\_\_\_\_, this \_\_\_\_\_ day of \_\_\_\_\_, 2011.

\_\_\_\_\_  
Robert Carroll

\_\_\_\_\_  
Witness

EXECUTED, at Unkrach, Austria, this 6<sup>th</sup> day of October, 2011.

Hannes Lelsch  
Hannes Lelsch

JAMIE WARRINGTON  
Witness

EXECUTED, at \_\_\_\_\_, this \_\_\_\_\_ day of \_\_\_\_\_, 2011.

\_\_\_\_\_  
Ales Machara

\_\_\_\_\_  
Witness

The Commissioner of Patents & Trademarks is hereby authorized and requested to issue said Letters Patent to said **Brock University**, the assignee of our entire right, title and interest in and to the same, for its sole use and benefit; and for the use and benefit of its successors and assigns, to the full end of the term for which Letters Patent may be granted, as fully and entirely as the same would have been held by us had this assignment and sale not been made.

EXECUTED, at St. Catharines, Ontario, this 4<sup>th</sup> day of

October, 2011.

Tomas Hudlicky  
Tomas Hudlicky

Josephine W Reed  
Witness

EXECUTED, at \_\_\_\_\_, this \_\_\_\_\_ day of

\_\_\_\_\_, 2011.

\_\_\_\_\_  
Robert Carroll

\_\_\_\_\_  
Witness

EXECUTED, at \_\_\_\_\_, this \_\_\_\_\_ day of

\_\_\_\_\_, 2011.

\_\_\_\_\_  
Hannes Leisch

\_\_\_\_\_  
Witness

EXECUTED, at PRAGUE, CZECH REP., this 6<sup>th</sup> day of

OCTOBER, 2011.

Ales Machara  
Ales Machara

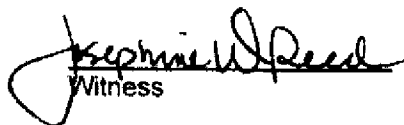
Lucie Dohnal  
Witness

EXECUTED, at Prague, Czech Rep., this 11<sup>th</sup> day of  
October, 2011.

  
Witness

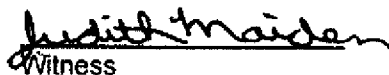
  
Lukas Werner


EXECUTED, at St. Catharines, Ontario, this 4<sup>th</sup> day of  
October, 2011.

  
Witness

  
David R. Adams

EXECUTED, at St. Catharines, Ontario, this 4<sup>th</sup> day of  
October, 2011.

  
Witness

  
Brock University  
Name: Gary Libben  
Title: Vice-President, Research



EXECUTED, at \_\_\_\_\_, \_\_\_\_\_, this \_\_\_\_\_ day of  
\_\_\_\_\_, 2011.

\_\_\_\_\_  
**Lukas Werner**

\_\_\_\_\_  
Witness

EXECUTED, at St. Catharines, Ontario, this 4<sup>th</sup> day of  
October, 2011.

Josephine W. Reed  
Witness

Del Adams  
**David R. Adams**

EXECUTED, at St. Catharines, Ontario, this 4<sup>th</sup> day of  
October, 2011.

Judith Maiden  
Witness

Gary Libben  
**Brock University**  
Name: Gary Libben  
Title: Vice-President, Research