

## PATENT ASSIGNMENT COVER SHEET

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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>
PETER C. RAHN	12/13/2005
ROMAINE R MAIEFSKI	12/14/2005
TIVADAR FARKAS	12/13/2005
EMMET E. WELCH	12/13/2005
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	PHENOMENEX, INC.
<b>Street Address:</b>	411 MADRID AVENUE
<b>City:</b>	TORRANCE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	90501
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15654207
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(949)855-6371
<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>	
<b>Phone:</b>	949-855-1246
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<b>Address Line 4:</b>	ALISO VIEJO, CALIFORNIA 92656
<b>ATTORNEY DOCKET NUMBER:</b>	MAJOR-119C2
<b>NAME OF SUBMITTER:</b>	LOWELL ANDERSON
<b>SIGNATURE:</b>	/LOWELL ANDERSON/
<b>DATE SIGNED:</b>	07/19/2017
<b>Total Attachments: 3</b>	
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ASSIGNMENT

WHEREAS, WE, Peter C. Rahn, a U.S. citizen, residing at 2007 Montaigne Drive, Richmond, Virginia 23235, Romaine R. Majefski, a U.S. citizen, residing at 1312 Hollins Road, Oceanside, CA 92056, Tivadar Farkas, a Romania citizen, residing at 1289 Slate Drive, Harbor City, CA 90710, and Emmet E. Welch, a U.S. citizen, residing at 1 Yarrow, Aliso Viejo, Ca 92656, have invented certain new and useful improvements in a METHOD AND APPARATUS FOR PACKING CHROMATOGRAPHY COLUMNS for which we have executed an application for Letters Patent in the United States concurrently herewith;

AND WHEREAS, Phenomenex, Inc. (hereinafter "ASSIGNEE"), a California Corporation, with its principal place of business at 411 Madrid Avenue, Torrance, CA 90501, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said applications and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND EACH INVENTOR HEREBY, covenants and agrees to communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify truthfully in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything lawfully possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 13<sup>th</sup> day of December, 2005.

*[Handwritten Signature]*  
Peter C. Rahn

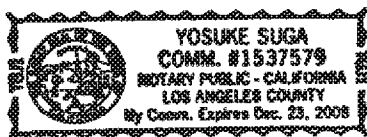
STATE OF CALIFORNIA )  
Los Angeles ) ss.  
COUNTY OF ~~SAN DIEGO~~ )

On Dec. 13, 2005, before me, YOSUKE SUGA personally appeared Peter C. Rahn personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies); and that by his signature(s) on the instrument the person(s); or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]

*[Handwritten Signature]*  
Notary Signature



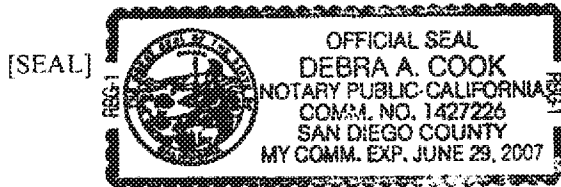
IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 14<sup>th</sup> day of December, 2005.

Romaine R. Maiefski  
Romaine R. Maiefski

STATE OF CALIFORNIA )  
 ) ss.  
COUNTY OF SAN DIEGO )

On December 14, 2005, before me, Debra A. Cook Notary Public personally appeared Romaine R. Maiefski personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Debra A. Cook  
Notary Signature

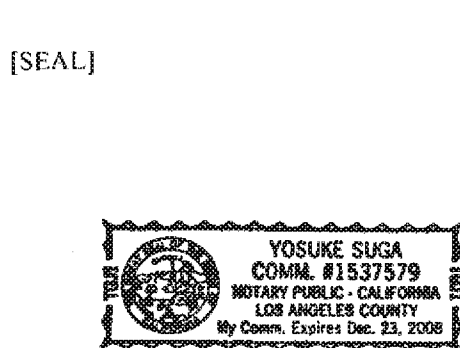
IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 13 day of December, 2005.

Trvdar Farkas  
Trvdar Farkas

STATE OF CALIFORNIA )  
 ) ss.  
COUNTY OF LOS ANGELES )  
~~SAN DIEGO~~

On Dec 13, 2005, before me, YOSUKE SUGA personally appeared Trvdar Farkas personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Yosuke Suga  
Notary Signature

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 13<sup>TH</sup> day of DECEMBER, 2005.

*[Handwritten signature of Emmet E. Welch]*

Emmet E. Welch

STATE OF CALIFORNIA )  
 ) ss.  
COUNTY OF ~~SAN DIEGO~~ LOS ANGELES )

On Dec 13, 2005, before me, YOSUKE SUGA personally appeared Emmet E. Welch personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(~~ies~~), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]

*[Handwritten signature of Yosuke Suga]*  
\_\_\_\_\_  
Notary Signature

