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Patent and Trademark Office

Atty Ref/Docket No.: 1676.057WO1

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Charles E. Inturrisi, Qinghao Xu and Sandra M. Garraway

Additional name(s) of conveying party(ies) attached?

[] Yes [X] No

2. Name and address of receiving party(ies):

Name: Cornell University

Street Address: 395 Pine Tree Road, Suite 310

City: Ithaca State: NY Zip: 14850

Additional name(s) & address(es) attached? [] Yes [X] No

3. Nature of conveyance:

[X] Assignment [] Merger

[] Security Agreement [] Change of Name

[] Other

Execution Date: October 26, 2009, October 28, 2009,
October 15, 2009

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

Serial No. PCT/US2009/003523, filed June 12, 2009

Additional numbers attached? [] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Monique M. Perdok Shonka

Address:

Schwegman, Lundberg & Woessner, P.A.

P.O. Box 2938

Minneapolis, MN 55402-0938

6. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$40.00

[] Enclosed

[X] Authorized to be charged to deposit account
19-0743

8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Monique M. Perdok Shonka/Reg. No. 42,989/ Monique M. Perdok Shonka /November 4, 2009

Name of Person Signing

Signature

Date

Total number of pages including cover sheet: 5

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Mail Stop Assignment Recordation Services
P.O. Box 1450
Alexandria, VA 22313-1450

PATENT

REEL: 023472 FRAME: 0978

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CH \$40.00 190743 US0903523

ASSIGNMENT

WHEREAS, We, **Charles E. Inturrisi**, a United States of America Citizen, residing at 50 Woodside Circle, Torrington, CT 06790, **Qinghao Xu**, a Citizen of China, residing at 9045 Judicial Drive, #1515, San Diego, CA 92122, and **Sandra M. Garraway**, a United States of America Citizen, residing at 439 Ashford Street, Brooklyn, NY 11207, have invented certain new and useful improvements in ERK2 AS A THERAPEUTIC TARGET FOR THE TREATMENT OF CLINICAL PAIN; for which an application **61/061,254**, on **June 13, 2008**; and in PAIN TREATMENT USING ERK2 INHIBITORS; for which an application **PCT/US2009/003523**, on **June 12, 2009**;

AND WHEREAS, **Cornell University**, with its principal place of business at **Cornell Center for Technology, Enterprise & Commercialization ("CCTEC")**, **395 Pine Tree Road, Suite 310, Ithaca, New York 14850 USA**, is entitled to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, 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 **Cornell University**, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application 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 **Cornell University**, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said **Cornell University**, its successors, legal representatives, and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths and generally do everything possible to aid the said **Cornell University**, its successors, legal representatives, and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

Docket No. 1676.057PKV, WO1

ASSIGNMENT

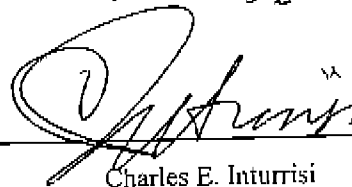
Client Ref. No. D-4382-01(US)

Assignors: Charles E. Inturrisi et al.

Serial Number: 61/061,254 and PCT/US2009/003523

Title: ERK2 AS A THERAPEUTIC TARGET FOR THE TREATMENT OF CLINICAL PAIN & PAIN TREATMENT USING ERK2 INHIBITORS.

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IN TESTIMONY WHEREOF, I have hereunto set my hand this 26 day ofOctober, 2009.

Charles E. Inturrisi

STATE OF New York

)ss

COUNTY OF Bronx

On this 26th day of October, 2009, before me personally appeared Charles E. Inturrisi, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

JOAN FALCIANO

NOTARY PUBLIC-STATE OF NEW YORK

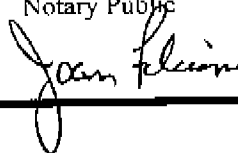
No. 01FA6174405

[SEAL]

Qualified in Bronx County

My Commission Expires September 17, 2011

Notary Public



PATENT

REEL: 023472 FRAME: 0980

ASSIGNMENT

Client Ref. No. D-4382-01(US)

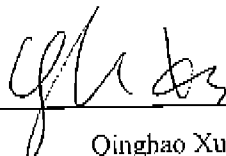
Assignors: Charles E. Inturrisi et al.

Title: ERK2 AS A THERAPEUTIC TARGET FOR THE TREATMENT OF CLINICAL PAIN & PAIN TREATMENT USING ERK2 INHIBITORS.

Docket No: 1676.057PRV, WO1

Serial Number: 61/061,254 and PCT/US2009/003523

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IN TESTIMONY WHEREOF, I have hereunto set my hand this 28 day ofOctober, 2009.

Qinghao Xu

STATE OF California

)ss

COUNTY OF San Diego

On this 27 day of October, 2009 before me personally appeared Qinghao Xu, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/~~she~~ duly acknowledged to me that he/~~she~~ executed the same for the uses and purposes therein set forth.

[SEAL]



Notary Public

ASSIGNMENT

Client Ref. No. D-4382-01(US)

Docket No. 1676-057PRV, WO1

Assignors: Charles E. Inturrisi et al

Serial Number: 61/061 254 and 601/US2009/003523

Title: ERK2 AS A THERAPEUTIC TARGET FOR THE TREATMENT OF CLINICAL PAIN & PAIN TREATMENT USING ERK2 INHIBITORS.

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IN TESTIMONY WHEREOF, I have hereunto set my hand this 15 day ofOctober, 2009.Sandra Garraway

Sandra M. Garraway

STATE OF Texas

)ss

COUNTY OF Brazos

On this 15th day of October, 2009 before me personally appeared Sandra M. Garraway, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



[SEAL]

Julie K Odell

Notary Public