Client Code: JEEK3.001APC

RECORDATION FORM COVER SHEET **PATENTS ONLY**

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

Name of conveying party(ies): (f.ist using letters	Name and address of receiving party(ies):
or numbers for multiple parties)	Name: Tsinghua University
(1) Dehua Liu	Street Address: Tsinghua Yuan, Haidian
(2) Keke Cheng	District
(3) Hongjuan Liu	City: Beijing
(4) Rihui Lin	ZIP : 100084 China
(5) Jian Hao	211 : 100004 Olima
Additional name(s) of conveying par.y(ies)	Additional name(s) of receiving party(ies) attached?
attached?	() Yes (X) No
() Yes (X) No	, ,
3. Nature of conveyance:	
(X) Assignment () Security Agreement	
() Merger () Chang∈ of Name	
() Other:	4. US or PCT Application number(s) or US Patent
Execution Date: (List as in section 1 if multiple	number(s):
signatures)	(X) Patent Application No.: 11/917,682
(1) February 18, 2008	Filing Date: December 14, 2007
(2) February 18, 2008	Additional numbers attached?
(3) February 18, 2008 (4) February 18, 2008	
(5) February 18, 2008	() Yes (X) No
Party to whom correspondence concerning	6. Total number of applications and patents
document should be mailed:	involved: 1
Customer No. 20,995	
Address: Knobbe, Martens, Olson & Bear, LLP 2040 Main Street, 14 th Floor	
Irvine, CA 92614	
Return Fax: (949) 760-9502	
Attorney's Docket No.: JEEK3.001APC	
7. Total fee (37 CFR 1.21(h)): \$40	8. Deposit account number: 11-1410
(X) Authorized to be charged to deposit account	Please charge this account for any additional fees
(4)	which may be required, or credit any overpayment
	to this account.
Statement and signature.	
	g information is true and correct, and any attached copy
is a true copy of the original document	16) //. 20 M = 8
Raymond D. Smith	61. / Us - 1 ley cool
Name of Person Signing Signature Date	
55,634	
Registration No.	
Total number of pages including cover sheet, attachments and document: 7	
Documents transmitted via Facsimile to be recorded with required cover sheet information to:	

Mail Stop Assignment Recordation Services

Director, U.S. Patent and Trademark Office

P.O. Box 1450 Alexandria, VA 22313-1450

Facsimile Number: (571) 273-0140

5418625--052208

Application No.: 11/917,602

Filing Date: December 14, 2007

PATENT

Client Code: JEEK3.001APC

Page 1

ASSIGNMENT

WHEREAS, We, 1). Dahua Liu, a Chinese citizen, residing at Tsinghua Yuan, Haidian District, Beijing, 100084, China, 2). Keke Cheng, a Chinese citizen, residing at Tsinghua Yuan, Haidian District, Beijing, 100084, China, 3). Hongjuan Llu, a Chinese citizen, residing at Tsinghua Yuan, Haidian District, Beijing, 100084, China, 4). Rihul Lin, a Chinese citizen, residing at Tsinghua Yuan, Haidian District, Beijing, 100084, China, 5). Jlan Hao, a Chinese citizen, residing at Tsinghua Yuan, Haidian District, Beijing, 100084, China, have invented certain new and useful improvements in a A METHOD FOR PRODUCING 1,3-PROPANEDIOL AND 2,3-BUTANEDIOL FROM RAW STARCH MATERIAL for which we have filed an application for Letters Patent in the United States, Application No. 11/917,682, Filed on December 14, 2007 and was described and claimed in PCT International Application No. PCT/CN2006/001291 filed on June 13, 2006.

AND WHEREAS, **Tsinghua University** (hereinafter "ASSIGNEE"), a Chinese Corporation, with its principal place of business at Tsinghua Yuan, Haidian District, Beijing, 100084, China, desires to acquire the entire right, title, and interest in and to said improvements and said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, said inventor, do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under said improvements, and said application including all provisional applications relating thereto 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 I 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 said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE DO HERIEBY sell, assign, transfer, and convey to ASSIGNEE, his successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND WE HEREBY covenant and agree that we will communicate to said ASSIGNEE, 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

PATENT

Client Code: JEEK3.001APC Application No.: 11/917,682 Filing Date: December 14, 2007

to aid said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, Assignor intending to be legally bound has hereunto affixed its signature.

This 18 day of Fels., 200 8 Signature of

Witness: Up Vang

PATENT '

PATENT

Client Code: JEEK3.001APC

Page 3

This 18 day of Feb., 2008

Signature of Keke Cheng

Witness JU WING

Application No.: 11/917,682

Filing Date: December 14, 2007

PATENT

Client Code: JEEK3.001APC

Page 4

This 18 day of 71/b. , 200 8 Hongjum 2m

Witness: Lily Wang

Application No.: 11/917,682 Filing Date: December 14, 2007

PATENT

Client Code: JEEK3.001APC

Page 5

This 18 day of 7eb., 200 8 Rihui Lin

Witness: Aly Wang

Application No.: 11/917,€82 Filing Date: December 14, 2007

PATENT

Application No.: 11/917,€82

Filing Date: December 14, 2007

PATENT

Client Code: JEEK3.001APC

Page 6

200_8___

4662320:vo 121707

RECORDED: 05/28/2008

PATENT