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Atty. Docket No.: **Poly-132-2**

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1. Name of conveying party(ies):
H. Jonathan CHAO, Yang XU
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies):
Name: **Polytechnic Institute of New York University**
Street Address: **6 Metrotech Center**
City: **Brooklyn** State: **NY** ZIP: **11201**
Additional name(s) & address(es) attached? Yes No

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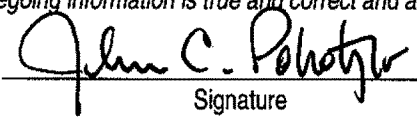
Execution Date: **March 1, 2012**

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) **13/409,974** B. Patent No.(s)
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: **John C. Pokotylo, Esq.**
STRAUB & POKOTYLO
Customer No. 26479
Internal Address: _____
Street Address: **788 Shrewsbury Ave.**
City: **Tinton Falls** State: **NJ** ZIP: **07724**

6. Total number of applications and patents involved: **1**
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John C. Pokotylo  **March 1, 2012**
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Atty. Doc. No.: Poly-132-2

ASSIGNMENT

WHEREAS, we, **H. Jonathan CHAO**, ASSIGNOR

a citizen of the **USA**, residing at **3 Luccarelli Drive, Holmdel, NJ 07733**; and

Yang XU, ASSIGNOR

a citizen of **CHINA**, residing at **1873 W 8th St., Apt. 2, Brooklyn, NY, 11223**;

are the inventors of the invention in:

**UPDATING A PERFECT HASH DATA STRUCTURE, SUCH AS A
MULTI-DIMENSIONAL PERFECT HASH DATA STRUCTURE, USED FOR
HIGH-SPEED STRING MATCHING**

for which an application for a Patent of the United States

was filed on March 1, 2012, as application serial number 13/409,974 or

is filed herewith;

and WHEREAS, **Polytechnic Institute of New York University**, a corporation of **New York**, having a place of business at **6 Metrotech Center, Brooklyn, NY 11201**, ASSIGNEE

is desirous of obtaining the entire right, title and interest in, to and under the invention and the 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 ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the invention, and the United States application and all divisions, renewals and continuations (including all continuation-in-part

applications) thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models and designs which have been or may hereafter be filed for the invention or claim the benefit of the application or any right of priority to the application, in any and all countries including any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from the United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventor's certificates and designs which may be granted for the invention 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 and Trademarks of the United States, and any official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

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

The undersigned hereby grant(s) the law firm of Straub & Pokotylo, and any other representative of the Assignee, the power to insert on this Assignment any further identification, including the application serial number, which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this
1st day of March, 2012.

H. Jonathan CHAO
H. Jonathan CHAO, Assignor

WITNESSED BY:

Yu Xia
Yu Xia
Name

2227 65th St. Apt. 2R
Address

Brooklyn, NY, 11204

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this
1st day of March, 2012.

Yang Xu
Yang XU, Assignor

WITNESSED BY:

Yu Xia Yu Xia
Name

2227 65th St. Apt. 2R.
Address

Brooklyn, NY, 11204