

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HAIRONG LIU	09/06/2017
ZHENYAO ZHU	09/06/2017
SANJEEV SATHEESH	09/06/2017
RECEIVING PARTY DATA	
Name:	BAIDU USA LLC
Street Address:	1195 BORDEAUX DR.
City:	SUNNYVALE
State/Country:	CALIFORNIA
Postal Code:	94089
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15698593
CORRESPONDENCE DATA	
Fax Number:	(650)856-0542
<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>	
Phone:	650-353-3783
Email:	docket2@northweber.com
Correspondent Name:	NORTH WEBER & BAUGH LLP -- BAIDU
Address Line 1:	3260 HILLVIEW AVENUE
Address Line 4:	PALO ALTO, CALIFORNIA 94304
ATTORNEY DOCKET NUMBER:	28888-2107
NAME OF SUBMITTER:	DOMARINA ALKHAS
SIGNATURE:	/Domarina Alkhas/
DATE SIGNED:	02/08/2018
Total Attachments: 5	
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ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the individual(s) named below (hereinafter "INVENTOR" whether singular or plural) has sold, assigned, transferred, and set over, and hereby sells, assigns, transfers and sets over, to Baidu USA LLC, a corporation of the State of California, having a place of business at 1195 Bordeaux Dr., Sunnyvale, CA 94089 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The full and exclusive worldwide right, title, and interest in and to all inventions and improvements ("SUBJECT MATTER") that are disclosed in the U.S. patent application, entitled "SYSTEMS AND METHODS FOR AUTOMATIC UNIT SELECTION AND TARGET DECOMPOSITION FOR SEQUENCE LABELLING" ("APPLICATION"),

☒ which is a non-provisional application

☒ bearing Application No. 15/698,593, and filed on September 7, 2017;

☒ to be filed herewith;

2. The entire worldwide right, title, and interest in and to the APPLICATION and all applications claiming priority to the APPLICATION or having related SUBJECT MATTER to the APPLICATION, including all such utility, divisional, continuation, substitute, renewal, reissue, international, or other related applications and all rights of priority in the APPLICATION, together with all rights to recover damages for infringement.

INVENTOR hereby authorizes and requests the Commissioner of the U.S. Patent and Trademark Office, and Patent Office Officials in all foreign countries, to issue to the ASSIGNEE any and all patents which may be granted from the APPLICATION.

INVENTOR will, without further consideration, communicate to the ASSIGNEE any facts known to the INVENTOR regarding the SUBJECT MATTER, testify in any legal proceeding, sign all lawful papers, execute all oaths, assignments, powers of attorney, applications and any other paper desired by ASSIGNEE to obtain, perfect, or secure to ASSIGNEE any and all of the rights, titles, and interests herein conveyed, and to maintain, enforce, and defend these rights, titles, and interests

Title:	SYSTEMS AND METHODS FOR AUTOMATIC UNIT SELECTION AND TARGET DECOMPOSITION FOR SEQUENCE LABELLING
Inventor(s):	Hairong Liu <i>et al.</i>
Appl. No.:	15/698,593
Filing Date:	September 7, 2017
Docket No.:	28888-2107 (BN170221USN2)

in the United States and all foreign countries. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE herein.

INVENTOR represents that the INVENTOR, at the time of the execution of this Assignment, is the sole and lawful owner of the entire rights, titles, and interests in and to the SUBJECT MATTER as set forth in the APPLICATION, and that the SUBJECT MATTER is unencumbered, and that the INVENTOR has good and full right and lawful authority to sell and convey the SUBJECT MATTER in the manner herein set forth.

INVENTOR covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR agrees to, and hereby acknowledges, that the ASSIGNEE may apply for and receive patents related to the APPLICATION or SUBJECT MATTER.

INVENTOR grants the attorney of record for the APPLICATION the power to insert on this Assignment any further identification, including the application number and filing date, which may be desirable or necessary to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment. INVENTOR signature blocks are located on the following pages.

Title: SYSTEMS AND METHODS FOR AUTOMATIC UNIT SELECTION AND TARGET
DECOMPOSITION FOR SEQUENCE LABELLING
Inventor(s): Hairong Liu *et al.*
Appl. No.: 15/698,593
Filing Date: September 7, 2017
Docket No.: 28888-2107 (BN170221USN2)

INVENTOR Name: Hairong LIU

INVENTOR Address: 1800 Stokes St.
San Jose, CA 95126

INVENTOR Signature

Date of Signature:

Hairong Liu

sep, 06, 2017

Witnessed By:

[Print Name]

Witness Signature:

Date of Signature:

State of _____)
County of _____)

On _____, before me _____ personally appeared,
[Date] [Name and Title of Officer]

_____, who proved to me on the basis of satisfactory evidence to be the
[INVENTOR]
person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that
he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their
signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted,
executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____
that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____

(Seal)

Title: SYSTEMS AND METHODS FOR AUTOMATIC UNIT SELECTION AND TARGET
DECOMPOSITION FOR SEQUENCE LABELLING
Inventor(s): Hairong Liu *et al.*
Appl. No.: 15/698,593
Filing Date: September 7, 2017
Docket No.: 28888-2107 (BN170221USN2)

INVENTOR Name: Zhenyao ZHU

INVENTOR Address: 890 Ithaca Ave.

Sunnyvale, CA 94087

INVENTOR Signature

Zhenyao ZHU

Date of Signature:

09/06/2017

Witnessed By:

[Print Name]

Witness Signature:

Date of Signature:

State of _____)

County of _____)

On _____, before me _____ personally appeared,
[Date] [Name and Title of Officer]

_____, who proved to me on the basis of satisfactory evidence to be the
[INVENTOR]
person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that
he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their
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(Seal)


Title: SYSTEMS AND METHODS FOR AUTOMATIC UNIT SELECTION AND TARGET
DECOMPOSITION FOR SEQUENCE LABELLING
Inventor(s): Hairong Liu *et al.*
Appl. No.: 15/698,593
Filing Date: September 7, 2017
Docket No.: 28888-2107 (BN170221USN2)

INVENTOR Name: Sanjeev Satheesh

INVENTOR Address: 1063 Morse Ave.
Sunnyvale, CA 94089

INVENTOR Signature

Date of Signature:


09/06/2017

Witnessed By:

[Print Name]

Witness Signature:

Date of Signature:

State of _____)
County of _____)

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[Date] [Name and Title of Officer]

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(Seal)