

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3149628

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
YONGQIAO XIAO	12/08/2014
TAIYEONG LEE	12/08/2014
JARED LANGFORD DEAN	12/08/2014
RUIWEN ZHANG	12/08/2014
RECEIVING PARTY DATA	
Name:	SAS INSTITUTE INC.
Street Address:	SAS CAMPUS DRIVE
City:	CARY
State/Country:	NORTH CAROLINA
Postal Code:	27513
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14571682
CORRESPONDENCE DATA	
Fax Number:	(608)661-3597
<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:	6086613590
Email:	pporembski@bellmanning.com
Correspondent Name:	PHILIP A. POREMBSKI
Address Line 1:	2801 WEST BELTLINE HIGHWAY
Address Line 2:	STE. 210
Address Line 4:	MADISON, WISCONSIN 53713
ATTORNEY DOCKET NUMBER:	04500-0029-03
NAME OF SUBMITTER:	PHILIP A. POREMBSKI
SIGNATURE:	/Philip A. Porembski/
DATE SIGNED:	12/16/2014
Total Attachments: 5	
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ASSIGNMENT

WHEREAS, one or more inventions have been made by the undersigned in

DATA STRUCTURE SUPPORTING CONTINGENCY TABLE GENERATION

and are the subject of a patent application filed in the United States Patent and Trademark Office on December 16, 2014, under Application Serial No. 14/571,682, which application is identified as SAS Docket No. 59089.

WHEREAS, **SAS INSTITUTE INC.**, a **North Carolina** corporation, located and doing business at **SAS Campus Drive, Cary, North Carolina 27513**, hereinafter referred to as "assignee", is desirous of acquiring all right, title, and interest in said inventions and patent rights therefor throughout the world.

NOW, THEREFORE, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, THE UNDERSIGNED HEREBY SELLS, ASSIGNS, TRANSFERS, AND DELIVERS TO ASSIGNEE all right, title, and interest, in the United States and throughout the world, in said inventions and all patents, patent rights, patent applications, and inventor's certificates for said inventions, including without limitation said application for patent in the United States and all provisionals, divisions, continuations, continuations-in-part, and resulting patents, all right to sue for infringement or past infringement, and all patents and patent rights that may be granted for said inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary or desirable to secure for or vest in assignee, its successors or assigns, any invention right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Patent and Trademark Office is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in the patents, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in the patents.

The undersigned hereby grants Bell and Manning LLC the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this Assignment has been executed below by the undersigned:



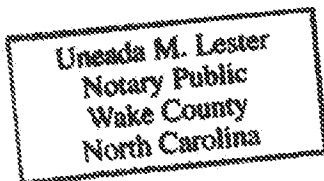
YONGQIAO XIAO

12/8/14
Date

Post Office Address: 117 Crafton Park Lane
Cary, NC 27519

STATE OF NORTH CAROLINA }
 } ss.
COUNTY OF WAKE }

YONGQIAO XIAO appeared before me this 8th day of December, 2014, and acknowledged that the foregoing instrument was executed as his free act and deed for the uses and purposes set forth therein.





Notary Public: Uneada M. Lester

My Commission Expires: July 25, 2019

IN WITNESS WHEREOF, this Assignment has been executed below by the undersigned:

Taiyeong Lee
TAIYEONG LEE

12/8/2014
Date

Post Office Address: 120 Bethabara Lane
Cary, NC 27513

STATE OF NORTH CAROLINA }
 } ss.
COUNTY OF WAKE }

TAIYEONG LEE appeared before me this 8th day of December, 2014, and acknowledged that the foregoing instrument was executed as his free act and deed for the uses and purposes set forth therein.

Uneada M. Lester
Notary Public
Wake County
North Carolina

Uneada M. Lester
Notary Public: Uneada M. Lester

My Commission Expires: July 25, 2019

IN WITNESS WHEREOF, this Assignment has been executed below by the undersigned:


JARED LANGFORD DEAN

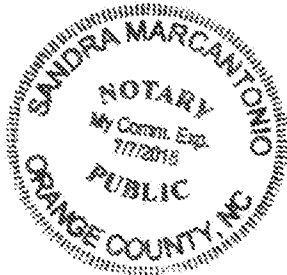
12/8/14
Date

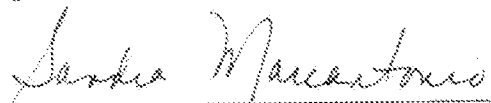
Post Office Address: 210 Benwell Court
Cary, NC 27519

STATE OF NORTH CAROLINA }
COUNTY OF WAKE } ss.
}

JARED LANGFORD DEAN appeared before me this 8th day of December, 2014, and acknowledged that the foregoing instrument was executed as his free act and deed for the uses and purposes set forth therein.

(SEAL)




Notary Public (Signature)

SANDRA MARCANTONIO
Notary Public (Printed)

My Commission Expires: 7/7/2018

IN WITNESS WHEREOF, this Assignment has been executed below by the undersigned:

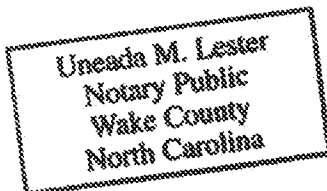
Ruiwen Zhang
RUIWEN ZHANG

12/8/2014
Date

Post Office Address: 232 Creststone Drive
Cary, NC 27519

STATE OF NORTH CAROLINA }
 } ss.
COUNTY OF WAKE }

RUIWEN ZHANG appeared before me this 8th day of December, 2014, and acknowledged that the foregoing instrument was executed as his free act and deed for the uses and purposes set forth therein.



Uneada M. Lester
Notary Public: Uneada M. Lester

My Commission Expires: July 25, 2019