

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4813763

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MICHAEL JAMES LEONARD	07/12/2012
EDWARD TILDEN BLAIR	07/12/2012
JERZY MICHAL BRZEZICKI	07/12/2012
UDO V. SGLAVO	07/12/2012
RANBIR SINGH TOMAR	07/12/2012
KANNUKUZHIYIL KURIEN KURIEN	07/12/2012
VILOCHAN SURESH MULEY	07/12/2012
RAJIB NATH	07/12/2012
SUJATHA POTHIREDDY	07/12/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SAS INSTITUTE INC.
<b>Street Address:</b>	SAS CAMPUS DRIVE
<b>City:</b>	CARY
<b>State/Country:</b>	NORTH CAROLINA
<b>Postal Code:</b>	27513
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15890019
Application Number:	15890013
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
<b>Email:</b>	akakoliris@kilpatricktownsend.com
<b>Correspondent Name:</b>	KILPATRICK TOWNSEND & STOCKTON LLP
<b>Address Line 1:</b>	TWO EMBARCADERO CENTER, SUITE 1900
<b>Address Line 4:</b>	SAN FRANCISCO, CALIFORNIA 94111-3834
<b>ATTORNEY DOCKET NUMBER:</b>	094926-1068933-1068936
<b>NAME OF SUBMITTER:</b>	ATHENA KAKOLIRIS

<b>SIGNATURE:</b>	/Athena Kakoliris/
<b>DATE SIGNED:</b>	02/07/2018
<b>Total Attachments: 10</b> source=Assignment_094926_1068933_1068936#page1.tif source=Assignment_094926_1068933_1068936#page2.tif source=Assignment_094926_1068933_1068936#page3.tif source=Assignment_094926_1068933_1068936#page4.tif source=Assignment_094926_1068933_1068936#page5.tif source=Assignment_094926_1068933_1068936#page6.tif source=Assignment_094926_1068933_1068936#page7.tif source=Assignment_094926_1068933_1068936#page8.tif source=Assignment_094926_1068933_1068936#page9.tif source=Assignment_094926_1068933_1068936#page10.tif	

## ASSIGNMENT

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

### COMPUTER-IMPLEMENTED SYSTEMS AND METHODS FOR TIME SERIES EXPLORATION

and are the subject of a patent application filed in the United States Patent and Trademark Office herewith, which application is identified as Jones Day Docket No. **343355-600315**.

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 the firm of Jones Day 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:

  
MICHAEL JAMES LEONARD


7/12/2012  
Date

Post Office Address: 122 Southwold Drive  
Cary, North Carolina 27519

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

MICHAEL JAMES LEONARD appeared before me this 12<sup>th</sup> day of July, 2012, and acknowledged that the foregoing instrument was executed as his free act and deed for the uses and purposes set forth therein.

Uneada Lester Harris  
Notary Public  
Wake County  
North Carolina

  
Notary Public: Uneada Lester Harris

My Commission Expires: July 25, 2014

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

  
EDWARD TILDEN BLAIR


7/12/12  
Date

Post Office Address: 305 E. Cornwall Road  
Cary, North Carolina 27511

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

**EDWARD TILDEN BLAIR** appeared before me this 12<sup>th</sup> day of July, 2012, and acknowledged that the foregoing instrument was executed as his free act and deed for the uses and purposes set forth therein.

**Uneada Lester Harris**  
**Notary Public**  
**Wake County**  
**North Carolina**

  
\_\_\_\_\_  
Notary Public: Uneada Lester Harris  
My Commission Expires: July 25, 2014

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

Jerzy Michal Brzezicki  
JERZY MICHAL BRZEZICKI

7/12/2012  
Date

Post Office Address: 803 Huntsworth Place  
Cary, North Carolina 27513

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

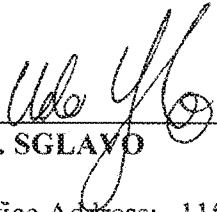
JERZY MICHAL BRZEZICKI appeared before me this 12<sup>th</sup> day of July, 2012, and acknowledged that the foregoing instrument was executed as his free act and deed for the uses and purposes set forth therein.

Uneada Lester Harris  
Notary Public  
Wake County  
North Carolina

Uneada Lester Harris  
Notary Public: Uneada Lester Harris

My Commission Expires: July 25, 2014

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

  
\_\_\_\_\_  
**UDO V. SGLAVO**

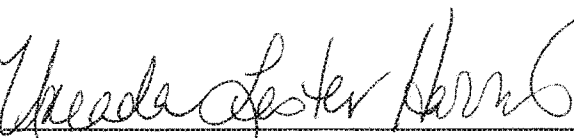
\_\_\_\_\_  
Date 12 Jul 12

Post Office Address: 11563 Auldbury Way  
Raleigh, North Carolina 27617

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


**UDO V. SGLAVO** appeared before me this 12th day of July, 2012, and acknowledged that the foregoing instrument was executed as his free act and deed for the uses and purposes set forth therein.

**Uneada Lester Harris**  
Notary Public  
Wake County  
North Carolina

  
\_\_\_\_\_  
Notary Public: Uneada Lester Harris  
My Commission Expires: July 25, 2014

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

Date: 12/07/2012



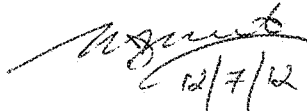
RANBIR SINGH TOMAR  
S1/602, Sophronia, Kalyani Nagar,  
Pune - 411014, Maharashtra  
India

STATEMENT BY WITNESS

I, MANU JALOD, whose full Post Office address is

A-15, FLORENTINE S NO 60A/2, SOPANBAUG, PUNE-1  
(Address of Witness)

hereby declare that I was personally present and did see the above named person, personally known to me to be the person named in the assignment, duly sign and execute the same.

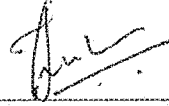


12/7/12



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

Date: 12/07/2012



KANNUKUZHIYIL KURIEN KURIEN  
F6/5, Hermes Heritage Phase III,  
Shastri Nagar, Yerwada,  
Pune - 411006, Maharashtra  
India

STATEMENT BY WITNESS

I, JOHN GEORGE, whose full Post Office address is

CLOVER HEIGHTS, WANDURGE, PUNE - 411040  
(Address of Witness)

herby declare that I was personally present and did see the above named person, personally known to me to be the person named in the assignment, duly sign and execute the same.



12/7/2012

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

Date: 12/07/2012

Vilochan  
VILOCHAN SURESH MULEY  
Building D, Flat 7, Mount 'N' Glory, Kharadi,  
Pune-411014, Maharashtra  
India

STATEMENT BY WITNESS

1. Seetharaman Venkatesan, whose full Post Office address is

401 Dahia, Nyati Meadows, VedaGanesh, Pune-Glory, India  
(Address of Witness)

hereby declare that I was personally present and did see the above named person, personally known to me to be the person named in the assignment, duly sign and execute the same.

Seetharaman  
(12<sup>th</sup> July 2012)

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

Date: 12-July-2012

*Rajib Nath*

RAJIB NATH  
D401, JASMINIUM, MAGARPATTA CITY,  
HADAPSAR,  
PUNE - 411028, MAHARASHTRA  
INDIA

STATEMENT BY WITNESS

I, SYED KHALID KARIM, whose full Post Office address is

B5/24, BRAMHA ANGAN, SALUNKE VIHAR ROAD, PUNE-48  
(Address of Witness)

hereby declare that I was personally present and did see the above named person, personally known to me to be the person named in the assignment, duly sign and execute the same.

*Shahab*  
12<sup>th</sup> July, 2012

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

Sujatha  
\_\_\_\_\_  
SUJATHA POTHIREDDY

7/12/12  
\_\_\_\_\_  
Date

Post Office Address: 2211 Colony Woods Drive  
Apex, North Carolina 27523

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

SUJATHA POTHIREDDY appeared before me this 12th day of July, 2012, and acknowledged that the foregoing instrument was executed as his free act and deed for the uses and purposes set forth therein.

Uneada Lester Harris  
Notary Public  
Wake County  
North Carolina

Uneada Lester Harris  
\_\_\_\_\_  
Notary Public: Uneada Lester Harris  
My Commission Expires: July 25, 2014