

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3534123

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KENNETH TOLMAN	09/16/2015
KIMBERLY BUCKLER BOTHA	09/16/2015
PAUL ANTHONY SMILEY	09/16/2015
DAVID R HENDERSON	09/16/2015
ANDREW ANDERSON	09/17/2015
<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: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14859420
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(412)202-5017
<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>Phone:</b>	919.636.4767
<b>Email:</b>	eofficeaction@appcoll.com
<b>Correspondent Name:</b>	KACVINSKY DAISAK BLUNI PLLC (1080)
<b>Address Line 1:</b>	430 DAVIS DRIVE
<b>Address Line 2:</b>	SUITE 150
<b>Address Line 4:</b>	MORRISVILLE, NORTH CAROLINA 27560
<b>ATTORNEY DOCKET NUMBER:</b>	1080S100025
<b>NAME OF SUBMITTER:</b>	JOHN F. KACVINSKY
<b>SIGNATURE:</b>	/John F. Kacvinsky/
<b>DATE SIGNED:</b>	09/21/2015
<b>Total Attachments: 6</b>	

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## ASSIGNMENT

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

### TECHNIQUES FOR QUERY HOMOGENIZATION IN CACHE OPERATIONS

and are the subject of a patent application filed in the United States Patent and Trademark Office on September 21, 2015, under Application Serial No. 14/859,420, which application is identified as Docket No. 1080S100025.

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 SAS Institute Inc. 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:

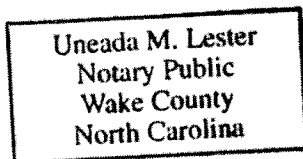
Kenn Tolman  
**KENNETH TOLMAN**

9/16/2015  
Date

Post Office Address: 2 High Rock Court  
Durham, North Carolina 27713

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

**KENNETH TOLMAN** appeared before me this 16<sup>th</sup> day of September, 2015,  
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

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

Kimberly B Botha  
**KIMBERLY BUCKLER BOTHA**

9/16/2015  
Date

Post Office Address: 8 Sugar Creek Court  
Durham, North Carolina 27713

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

September, 2015, and acknowledged that the foregoing instrument was executed as her free act and deed for the uses and purposes set forth therein.        16<sup>th</sup> day of

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:

  
PAUL ANTHONY SMILEY

Date

9-16-2015

Post Office Address: 8305 Grey Abbey Place  
Raleigh, North Carolina 27615


STATE OF NORTH CAROLINA

}  
} ss.  
}

COUNTY OF WAKE


PAUL ANTHONY SMILEY appeared before me this 16<sup>th</sup> day of September, 2015, 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

  
Notary Public: Uneada M. Lester

My Commission Expires: July 25, 2019

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

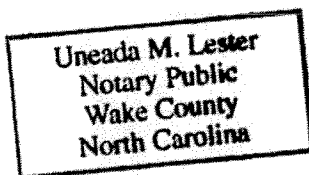
  
\_\_\_\_\_  
DAVID R. HENDERSON


16 Sep 2015  
\_\_\_\_\_  
Date

Post Office Address: 304 Bradwyck Drive  
Cary, North Carolina 27513

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

DAVID R. HENDERSON appeared before me this 16<sup>th</sup> day of September, 2015, 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:

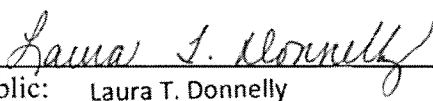
  
\_\_\_\_\_  
ANDREW ANDERSON

9/17/15  
\_\_\_\_\_  
Date

Post Office Address: 212 Baytree Lane  
Raleigh, North Carolina 27615

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

ANDREW ANDERSON appeared before me this 17<sup>th</sup> day of September, 2015, and acknowledged that the foregoing instrument was executed as his free act and deed for the uses and purposes set forth therein.

  
\_\_\_\_\_  
Notary Public: Laura T. Donnelly

My Commission Expires: January 16, 2017

