504345533 05/01/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SERGIY PEREDRIY	04/27/2017
DEOVRAT VIJAY KAKDE	04/28/2017
ARIN CHAUDHURI	04/28/2017

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:	15583067

CORRESPONDENCE DATA

Fax Number: (608)661-3597

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.

Phone: 6086613590

Email: pporembski@bellmanning.com

PHILIP A. POREMBSKI **Correspondent Name:**

Address Line 1: 2801 WEST BELTLINE HIGHWAY

Address Line 2: STE. 210

Address Line 4: MADISON, WISCONSIN 53713

ATTORNEY DOCKET NUMBER: 04500-0058-02 **NAME OF SUBMITTER:** PHILIP A. POREMBSKI SIGNATURE: /Philip A. Porembski/ **DATE SIGNED:** 05/01/2017

Total Attachments: 4

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> **PATENT** REEL: 042193 FRAME: 0495 504345533

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PATENT REEL: 042193 FRAME: 0496

ASSIGNMENT

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

KERNEL PARAMETER SELECTION IN SUPPORT VECTOR DATA DESCRIPTION FOR OUTLIER IDENTIFICATION

and are the subject of a patent application filed in the United States Patent and Trademark Office on May 1 , 20 17, under Application Serial No. 15/583,067 , which application is identified as SAS Docket No. 100123-US.

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, afficiavits, 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, ritle, 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 patems granted on any of said applications to assigned 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.

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PATENT REEL: 042193 FRAME: 0497

SERGIY PEREDRIY		
Post Office Address: 25 Di Aubu	ay Street milair, Massachusens (72466)	
STATE OF MASSACHUSE		
COUNTY OF ALA		
Activities to a minimal state of		
	IV anocared before me this 27 August AAAAL son	.ey
SERGIY PEREDR	IV appeared before me this 27 day of APIL 201 pregoing instrument was executed as his free acrained deed for the use n.	7. :s
SERGIY PEREDR nd acknowledged that the fi	progoing instrument was executed as his tree acroad deed for the ne-	7, 28

My Commission Expires.....

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

DEOVRAT VIJAY KAKDE

Post Office Address: 757 McRae Road

Cary, North Carolina 27519

STATE OF NORTH CAROLINA

COUNTY OF WAKE

SS.

DEOVRAT VIJAY KAKDE appeared before me this 2017, and acknowledged that the foregoing instrument was executed as his free act and deed for the uses and purposes set forth therein.

(SEAL)

THE THE PERSON NAMED IN

Notary Public: Susan D'Amico

My Commission Expires: March 23, 2019

Ann Chaudhuri 28 April (2017)
Date

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

Post Office Address: 2129 Kevale Avenue

Raleigh, North Carolina 27617

STATE OF NORTH CAROLINA } ss.
COUNTY OF WAKE }

ARIN CHAUDHURI appeared before me this day of long., 2017, and acknowledged that the foregoing instrument was executed as his free act and deed for the uses and purposes set forth therein.

(SEAL)

My Comm. Exp.

RECORDED: 05/01/2017

Notary Public: Susan D'Amico

My Commission Expires: March 23, 2019