EPAS ID: PAT5390981

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
YILIN SHEN	12/26/2018
YUE DENG	01/14/2019
HONGXIA JIN	12/27/2018

#### **RECEIVING PARTY DATA**

Name:	SAMSUNG ELECTRONICS CO., LTD.	
Street Address: 129, SAMSUNG-RO, YEONGTONG-GU		
City: SUWON-SI, GYEONGGI-DO		
State/Country:	KOREA, REPUBLIC OF	

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16234433

#### **CORRESPONDENCE DATA**

**Fax Number:** (424)229-6815

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:** 424-229-6800

Email: patent@shermanip.com
Correspondent Name: SHERMAN IP LLP (SRA)
Address Line 1: 1519 26TH STREET

Address Line 4: SANTA MONICA, CALIFORNIA 90404

ATTORNEY DOCKET NUMBER:	SAM2S-P.E20
NAME OF SUBMITTER: STEVEN LAUT, REG. NO. 47736	
SIGNATURE:	/Steven Laut/
DATE SIGNED:	02/25/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).

#### **Total Attachments: 6**

505344198

source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif

> PATENT REEL: 048425 FRAME: 0040

source=Assignment#page5.tif
source=Assignment#page6.tif

PATENT REEL: 048425 FRAME: 0041

## DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

METHOD AND SYSTEM FOR CLASSIFYING TIME-SERIES DATA

Title of Invention

As the undersigned inventor, I hereby declare that:		
	The attached application, or United States application or PCT International application number	
The above-identified application wa	as made or authorized to be made by me.	
I believe that I am the original inve	ntor or an original joint inventor of a claimed invention in the application.	
I have reviewed and understand the assignment is being submitted.	contents of the application including the claims, for which this combined declaration and	
I am aware of the duty to disclose to 1.56.	o the Office all information known to me to be material to patentability as defined in 37 CFR	
WHEREAS, Samsung Electronics Co., Ltd., a Korean corporation, having a place of business at 129, Samsung-ro, Yeongtong-gu Suwon-si, Gyeonggi-do, Korea (hereinafter referred to as "ASSIGNEE"), desires to acquire the entire right, title and interest in said invention and to any patent that may be granted thereon in the United States and foreign countries;		
NOW, THEREFORE, for good and valuable consideration, the receipt whereof is hereby acknowledged, We, the below named inventors, hereby sell, assign and transfer to said ASSIGNEE, its successors and assigns, the entire right, title and interest in the above-identified application and the invention disclosed therein in all countries, including all divisional applications, continuation applications, and corresponding priority applications including those to which priority is claimed under the International Convention of Paris including under 35 U.S.C. 119, substitutions, and renewals thereof, and to all patents that may be granted thereon, and all reissues thereof.		
We hereby authorize and request the Patent Office Officials in the United States and all foreign countries to issue patents, when granted, to said ASSIGNEE, its successors and assigns. Further, We agree that said ASSIGNEE, its successors and assigns, may apply for patents for the invention in foreign countries without further authorization from us. Also, We agree to execute all papers and generally to do everything possible to aid said ASSIGNEE, its successors and assigns, in obtaining and enforcing patents for the invention in all countries.		
I hereby acknowledge that any willful false statement made in this combined declaration and assignment is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.		
	TOR (e.g., full first name, middle initial, last name)	
/	Date: 12/26/2018	
Signature:	The state of the s	
LEGAL NAME OF SECOND INV	ENTOR (e.g., full first name, middle initial, last name)	
Inventor: Yue Deng	Date:	
Signature:		

PATENT REEL: 048425 FRAME: 0042

CSI18-AI13-A1 (SAM2S-P.e20)

LEGAL NAME OF THIRD INVENTOR (e.g., full first name, middle initial, last name)		
 Inventor: Hongxia Jin	Date:	
 Signature:	••••	

CSI18-AI13-A1 (SAM2S-P.e20)

Page 2 of 2

## DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

Title of Invention	METHOD AND SYSTEM FOR CLASSIFYING TIME-SERIES DATA		
As the undersi	As the undersigned inventor, I hereby declare that:		
This combined declaration and SThe attached application, or assignment is directed to: United States application or PCT International application number			
The above-ide	ntified application was made or authorized to be made by me.		
I believe that I	am the original inventor or an original joint inventor of a claimed invention in the application.		
	d and understand the contents of the application including the claims, for which this combined declaration and being submitted.		
I am aware of t 1.56.	the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR		
Suwon-si, Gye	amsung Electronics Co., Ltd., a Korean corporation, having a place of business at 129, Samsung-ro, Yeongtong-gu onggi-do, Korea (hereinafter referred to as "ASSIGNEE"), desires to acquire the entire right, title and interest in and to any patent that may be granted thereon in the United States and foreign countries;		
NOW. THEREFORE, for good and valuable consideration, the receipt whereof is hereby acknowledged. We, the below named inventors, hereby sell, assign and transfer to said ASSIGNEE, its successors and assigns, the entire right, title and interest in the above-identified application and the invention disclosed therein in all countries, including all divisional applications, continuation applications, and corresponding priority applications including those to which priority is claimed under the International Convention of Paris including under 35 U.S.C. 119, substitutions, and renewals thereof, and to all patents that may be granted thereon, and all reissues thereof.			
We hereby authorize and request the Patent Office Officials in the United States and all foreign countries to issue patents, when granted, to said ASSIGNEE, its successors and assigns. Further, We agree that said ASSIGNEE, its successors and assigns, may apply for patents for the invention in foreign countries without further authorization from us. Also, We agree to execute all papers and generally to do everything possible to aid said ASSIGNEE, its successors and assigns, in obtaining and enforcing patents for the invention in all countries.			
I hereby acknowledge that any willful false statement made in this combined declaration and assignment is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
LEGAL NAME OF FIRST INVENTOR (e.g., full first name, middle initial, last name)			
Inventor: Yilin Shen Date:			
Signature:			
LEGAL NAME OF SECOND INVENTOR (e.g., full first name, middle initial, last name)			
Invenior: Yue Deng Date: 1/14/2015			
Signature:			

CSI18-AI13-A1 (SAM2S-P.e20)

Page 1 of 2

LEGAL NAME OF THIRD INVENTOR (e.g., full first name, middle initial, last name)		
Inventor: Hongxia Jin	Date:	
Signature:		

# DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

Invention	METHOD AND SYSTEM FOR CLASSIFYING TIME-SERIES DATA	
As the undersigned inventor, I hereby declare that:		
This combined assignment is o	declaration and	
The above-ide	ntified application was made or authorized to be made by me.	
I believe that I	am the original inventor or an original joint inventor of a claimed invention in the application.	
I have reviewe assignment is b	d and understand the contents of the application including the claims, for which this combined declaration and being submitted.	
I am aware of t	the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR	
Suwon-si, Gye	amsung Electronics Co., Ltd., a Korean corporation, having a place of business at 129, Samsung-ro, Yeongtong-gu onggi-do, Korea (hereinafter referred to as "ASSIGNEE"), desires to acquire the entire right, title and interest in and to any patent that may be granted thereon in the United States and foreign countries;	
NOW, THEREFORE, for good and valuable consideration, the receipt whereof is hereby acknowledged, We, the below named inventors, hereby sell, assign and transfer to said ASSIGNEE, its successors and assigns, the entire right, title and interest in the above-identified application and the invention disclosed therein in all countries, including all divisional applications, continuation applications, and corresponding priority applications including those to which priority is claimed under the International Convention of Paris including under 35 U.S.C. 119, substitutions, and renewals thereof, and to all patents that may be granted thereon, and all reissues thereof.		
We hereby authorize and request the Patent Office Officials in the United States and all foreign countries to issue patents, when granted, to said ASSIGNEE, its successors and assigns. Further, We agree that said ASSIGNEE, its successors and assigns, may apply for patents for the invention in foreign countries without further authorization from us. Also, We agree to execute all papers and generally to do everything possible to aid said ASSIGNEE, its successors and assigns, in obtaining and enforcing patents for the invention in all countries.		
I hereby acknowledge that any willful false statement made in this combined declaration and assignment is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.		
LEGAL NAME	OF FIRST INVENTOR (S.C. S.) S	
LEGAL NAME OF FIRST INVENTOR (e.g., full first name, middle initial, last name)		
Inventor: Yilin Shen Date:		
Signature:		
LEGAL NAME OF SECOND INVENTOR (e.g., full first name, middle initial, last name)		
inventor: Yue Deng Date:		
ignature:		

CSI18-AI13-A1 (SAM2S-P.e20)

Page 1 of 2

LEGAL NAME OF THIRD INVENTOR (e.g., full first name, middle initial, last name)		
Inventor: Hongxia Jin	Date: 12/27/2018	
Signature: // ////Stall		
<i>/</i>		

CS118-A113-A1 (SAM2S-P.e20) Page 2 of 2

**RECORDED: 02/25/2019**