505355043 03/03/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5401830

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MANU AWASTHI	05/21/2015
ROBERT BRENNAN	05/19/2015

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
Postal Code:	16677

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16231229

CORRESPONDENCE DATA

Fax Number:

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: 503-419-6425

Email: pto@renaissanceiplaw.com

Correspondent Name: RENAISSANCE IP LAW GROUP LLP (SSI)
Address Line 1: 1500 NW BETHANY BLVD., SUITE 200

Address Line 4: BEAVERTON, OREGON 97006

ATTORNEY DOCKET NUMBER:	1535-138CON
NAME OF SUBMITTER:	HOSOON LEE
SIGNATURE:	/Hosoon Lee/
DATE SIGNED:	03/03/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 4

source=1535-138CON_WB-201409-001-1-US1_Declaration_Assignment_parent#page1.tif source=1535-138CON_WB-201409-001-1-US1_Declaration_Assignment_parent#page2.tif source=1535-138CON_WB-201409-001-1-US1_Declaration_Assignment_parent#page3.tif source=1535-138CON_WB-201409-001-1-US1_Declaration_Assignment_parent#page4.tif

PATENT 505355043 REEL: 048486 FRAME: 0703

COMBINED DECLARATION (37 CFR §1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM¹

The undersigned acknowledges that this document is being used both as an assignment of the invention and as the declaration (37 CFR 1.63) for a Utility or Design Application.

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

Title:	DATA MANAGEMENT SCHEME IN VIF	TUALIZED HYPERSCALE E	NVIRONMENTS
for which patent.	Assignor is about to make or has made	United States or Internat	tional application for
WHEREAS	s, as a below named inventor(s), I/(we)	hereby declare that:	
Section I.	Declaration		
This decla	iration is directed to:		
X	The attached U.S. non-provisiona	l patent application, or	
	U.S. non-provisional patent applic	ation number	filed on
	PCT international patent applicati	on number	, filed on
The above	e-identified application was made or au	ithorized to be made by n	ne (us).
	ieve that I am (we are) the original inve in the above-identified application.	ntor (original joint invent	ors) of a claimed
	eby acknowledge that any willful false : le under 18 U.S.C. 1001 by fine or impri		
¹ This form	requires the use of an Application Data Sheet.		
SEC Ref No	⊃. W8-201409-001-1	Attorney Ref No.	1535-138
COMBIN	ED DECLARATION (37 CFR 1.63) FOR UTILIT	Y PATENT APPLICATION AN	D ASSIGNMENT FORM

Page 1 of 4

PATENT REEL: 048486 FRAME: 0704 I hereby state that I have reviewed and understand the contents of the above identified application, including the claims.

I acknowledge that I am aware of the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

Section II. Assignment

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the undersigned hereby sell(s) and assign(s) to

Samsung Electronics Co., Ltd.

having an address at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742, Republic of Korea (hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 USC §100, in the invention described in the application identified in Section Lof this document.

Assignor hereby confirms any prior assignment to Assignee, and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

Assignor hereby	covenants and	agrees to	execute	all instrum	ents or	documen	ts requi	red or
requested for the	e making and r	prosecution	of any	application	s of any	type for i	patent,	utility

SEC Ref No.	WB-201409-001-1	Attorney Ref No.	1535-138

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
Page 2 of 4

model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth:

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee.

The undersigned hereby grant(s) the law firm of Renaissance IP Law Group LLP the power to insert on this Declaration and Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Section III. Inventor(s)/Assignor(s) Signature(s)

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FIRST INVENTOR/ASSIGNOR	AWASTHI	Manu	
SIGNATURE		DATE	5/21/2015

LEGAL NAME	OF Family Name	First Given Name	Second Given Name
			. `
SEC Ref No.	WB-201409-001-1	Attorney Ref No.	1535-138

SAMSUNG ELECTRONICS CO., LTD.

FIRST	Brennan	Robert	
INVENTOR/ASSIGNOR			
SIGNATURE	RUL	DATE	5/19/15

SEC Ref No. WB-201409-001-1 Attorney Ref No. 1535-138

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
Page 4 of 4

PATENT REEL: 048486 FRAME: 0707