

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5974419

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PENG ZHOU	02/18/2020
YINGNAN ZHU	02/18/2020
XIANGYUAN ZHAO	02/18/2020
HONG-HOE KIM	02/18/2020
HYUN CHUL LEE	02/18/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SAMSUNG ELECTRONICS COMPANY, LTD.
<b>Street Address:</b>	129, SAMSUNG-RO, YEONGTONG-GU
<b>City:</b>	SUWON SI, GYEONGGI-DO
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16796739
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(214)953-6503
<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>	214-953-6500
<b>Email:</b>	ptomail1@bakerbotts.com, alma.goldchain@bakerbotts.com
<b>Correspondent Name:</b>	BAKER BOTTS L.L.P./SAMSUNG
<b>Address Line 1:</b>	2001 ROSS AVENUE
<b>Address Line 2:</b>	SUITE 900
<b>Address Line 4:</b>	DALLAS, TEXAS 75201-2980
<b>ATTORNEY DOCKET NUMBER:</b>	082499.0168
<b>NAME OF SUBMITTER:</b>	JASON R. GERMAN, REG. NO. 69,497
<b>SIGNATURE:</b>	/Jason R. German/
<b>DATE SIGNED:</b>	02/20/2020
This document serves as an Oath/Declaration (37 CFR 1.63).	
<b>Total Attachments: 2</b>	

source=082499-0168\_Assignment-Declaration\_asfiled#page1.tif

source=082499-0168\_Assignment-Declaration\_asfiled#page2.tif

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

Title of  
Invention      Hashing-Based Effective User Modeling

As the undersigned inventor, I hereby declare that:

This combined declaration and assignment is directed to: ☒ The attached application, or  
☐ United States application or PCT International application number \_\_\_\_\_  
filed on \_\_\_\_\_

The above-identified 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 reviewed and understand the contents of the application including the claims, for which this combined declaration and assignment is being submitted.

I am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR 1.56.

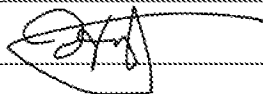
WHEREAS, Samsung Electronics Company, Ltd., a Korean corporation, having a place of business at 129, SAMSUNG-RO, YEONGTONG-GU, SUWON SI, GYEONGGI-DO, South Korea (hereinafter referred to as "ASSIGNEE"), desires to acquire the entire right, title and interest in said invention and to any patent that may 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.

Inventor: Hyechul Lee Hyun Chul Lee      Date: 02/18/2020

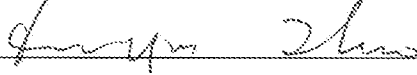
Signature: \_\_\_\_\_  


Inventor: Hong-Hoe Kim      Date: 02. / 8. 2020

Signature: \_\_\_\_\_  

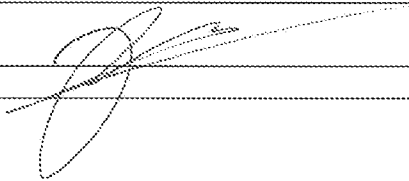

Inventor: Xiangyuan Zhao

Date: 2/18/2020

Signature: 

Inventor: Peng Zhou

Date: 2/18/2020

Signature: 

Inventor: Yingnan Zhu

Date: 2/18/2020

Signature: 