## 504762939 02/05/2018

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4809667

SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY DA	ATA				
		Name	Execution Date		
SEUNG-HAK YU			01/31/2018		
NILESH KULKARNI			01/30/2018		
HEE-JUN SONG			01/31/2018		
HAE-JUN LEE			01/31/2018		
RECEIVING PARTY DA	ТА				
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Postal Code:	16677				
PROPERTY NUMBERS	Total: 1				
Property Type		Number	]		
Application Number:	15	888442	]		
	A T A				
CORRESPONDENCE DATA Fax Number: (703)816-4100					
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ATTORNEY DOCKET NUMBER:		USG-6280-192			
NAME OF SUBMITTER:		UPDEEP S. GILL			
SIGNATURE:		/Updeep S. Gill/			
DATE SIGNED:		02/05/2018			
DATE SIGNED.					
DATE SIGNED.		This document serves as an Oath	/Declaration (37 CFR 1.63).		
Total Attachments: 2		This document serves as an Oath	n/Declaration (37 CFR 1.63).		
	RATION_A		n/Declaration (37 CFR 1.63).		

PATENT REEL: 044832 FRAME: 0431

Samsung's Ref: GN-201703-002-1-US1

Document Description: Oath or declaration filed

opennen sesenphon. Fain of useistation man	Attorney Docket Number	USG-6280-192			
	First Named Inventor	YÜ			
INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) USING AN APPLICATION DATA SHEET (37 CFR 1.76) Declaration Submitted With Initial Filing					
v.					
OR					
Declaration Submitted After Initial Filing (surcharge (37 C.F.R. § 1.16(f)) required)					
ELECTRONIC APPARATUS FOR COMPRESSING LANGUAGE MODEL, ELECTRONIC APPARATUS FOR PROVIDING RECOMMENDATION WORD AND OPERATION METHODS THEREOF					
(Title of the Invention)					
As a below named inventor, I hereby declare that:					
This declaration is directed to.					
The attached application,					
OR					
United States Application Number or PCT International application number filed on					
The above-identified application was made or authorized to be made by me.					
I believe I am the original inventor or an original joint inventor of a claimed invention in the application.					
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.					
WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an invention in the Ap	oplication identified above.				
WHEREAS, Samsung Electronics Co., Ltd. (hereinafter ASSIGNEE), a corpo Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677 Republic	: of Korea, is desirous of acquir	ing an interest therein;			
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and the ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE's attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;					
ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention;					
ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and					
ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.					
AGREED and executed as noted below:					
LEGAL NAME OF SOLE OR FIRST INVENTOR: (E.g., Given Name (first and middle (if any)) and Family Name or Sumame)					
Seung-hak YU					
Inventor's Signature:		ung 31,2018			
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			

[3] Additional inventor is being named on the 1 supplemental sheet(s) PTO/AIA/10 attached hereto

Note: PTO Rules state \*A person may not execute an oath or declaration for an application unless that person has reviewed and understands the contents of the application, including the claims, and is aware of the duty to disclose to the Office all information known to the person to be material to patentability as defined in [37 CFR] §1.56

(Page 1 of 2)

## Samsung's Ref. GN-201703-002-1-US1 DOCKET NO. USG-6280-192

SUPPLEMENTAL SHEET FOR DECLARATION	ADDITIONAL INVENTOR(S) Supplemental Shaet (for PTO/AIA//08/09) (Page 2 of 2)	
Legal Name of Additional Joint Inventor, if any:		
(E.g., Given Name (first and middle (if any)) and Family Name or S Nilesh	urname) KULKARNI	
Inventor's Signature:	Dame January 30,2018	
Legal Name of Additional Joint Inventor, if any:		
(E.g., Given Name (first and middle (if any)) and Family Name or S	umame)	
Hee-jun	SONG	
Inventor's Signature:	Date:	

 Hee-jun
 SONG

 Inventor's Signature:
 Date:

 January, 31, 2018

 Legal Name of Additional Joint Inventor, if any:

 (E.g., Given Name (first and middle (if any)) and Family Name or Sumame)

 Hae-jun

 Hae-jun

 LEE

 Inventor's Signature:

 Units

 Jankary, 31, 2018