PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHIYANG LENG	05/31/2022
HAO CHEN	05/31/2022
AHMED ATEF IBRAHIM IBRAHIM	06/01/2022
NAMJEONG LEE	06/01/2022
SOOYOUNG HUR	06/08/2022

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17806068

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ATTORNEY DOCKET NUMBER:	SAMS10-02031
NAME OF SUBMITTER:	JACOB L. LACOMBE
SIGNATURE:	/Jacob L. LaCombe/
DATE SIGNED: 06/08/2022	
This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 5

PATENT REEL: 060143 FRAME: 0257

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PATENT REEL: 060143 FRAME: 0258

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

Title of Invention	PMI-BASED DATA BEAM NULLING WITH A CSI REPORT			
As the undersi	As the undersigned inventor, I hereby declare that:			
	This combined declaration and assignment is directed to: United States application or PCT International application number filed on			
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 1.56.	the duty to disclose to 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, 16677, 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.				
LEGAL NAM	E OF FIRST INVENTOR (e.g., full first name, middle initial, last name)			
Inventor: Shi	yang Leng Date: May 31, 2022			
Signature: /c	Shiyang Leng /			

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SAMS10-02031

PATENT REEL: 060143 FRAME: 0259

LEGAL N	AME OF SECOND INVENTOR (e.g., full first na	ıme, middle i	initial, last name)
Inventor:	Hao Chen	Date:	May 31, 2022
Signature:	Hao Chen		

LEGAL NAME OF THIRD INVENTOR (e.g., full first name, middle initial, last name)			
Inventor:	Ahmed Atef Ibrahim Ibrahim	Date: _	Jun 1, 2022
Signature:	[Ahmed Ibrahim]		

LEGAL NAME OF FOURTH INVENTOR (e.g., full first name, middle initial, last name)		
Inventor:	Namjeong Lee	Date: Jun 1, 2022
Signature:	Nampeong Lee	

LEGAL NAME OF FIFTH INVENTOR (e.g., full first name, middle initial, last name)		
Inventor: Sooyoung Hur	Date: Jun 8, 2022	
Signature: /Sooyoung Hur /		

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RECORDED: 06/08/2022