# 504041687 10/07/2016

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4088348

SUBMISSION TYPE:		NEW ASSIGNMENT	
IATURE OF CONVEYAN	CE:	ASSIGNMENT	
CONVEYING PARTY DA	ТА		
		Name	Execution Date
RAGHAVENDRA KALOS	E MATI	HSYENDRANATH	10/05/2016
ALOK SHANKARLAL SH	UKLA		10/05/2016
PRADEEP CHOUDHARY	/		10/05/2016
KARTHIK NARAYANAN			10/06/2016
RECEIVING PARTY DAT	Γ <b>Α</b>		
Name:		JNG ELECTRONICS CO., LTD.	
Street Address:	129, SAMSUNG-RO, YEONGTONG-GU		
	SUWON-SI, GYEONGGI-DO		
State/Country:	KOREA, REPUBLIC OF		
-	16677		
PROPERTY NUMBERS		Number	
Property Type			
		Number	
Property Type Application Number: CORRESPONDENCE DA		Number	
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Property Type Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be using a fax number, if pa Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NUM NAME OF SUBMITTER: SIGNATURE:	ATA sent to rovideo	Number         15288370         b the e-mail address first; if that is unsuc         c; if that is unsuccessful, it will be sent via         202-293-0804         usdocketing@jeffersonip.com         JEFFERSON IP LAW, LLP         1130 CONNECTICUT AVE., NW, SUITE 42         WASHINGTON, D.C. 20036         0202-1344         WONKI PARK         /Wonki PARK/	ia US Mail.

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To the Director of the U.S. Patent and Trademark Office: Pleas	se record the attached documents or the new address(es) below.			
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)			
1) Raghavendra Kalose MATHSYENDRANATH; 2) Alok Shankarlal SHUKLA; 3) Pradeep CHOUDHARY; and	Name: Samsung Electronics Co., Ltd.			
4) Karthik NARAYANAN	Internal Address:			
Additional name(s) of conveying party(ies) attached? Yes 🗸 No 3. Nature of conveyance/Execution Date(s):	Street Address: 129, Samsung-ro, Yeongtong-gu			
Execution Date(s) October 5, 2016, October 6, 2016	Otreet Address. <u>129, Samsung-10, Teoligiong-gu</u>			
Assignment Merger				
Security Agreement Change of Name	City: Suwon-si, Gyeonggi-do			
Joint Research Agreement	State:			
Government Interest Assignment	Country: Republic of Korea Zip: 16677			
Executive Order 9424, Confirmatory License				
Other	Additional name(s) & address(es) attached? Yes 🔽 No			
A. Patent Application No.(s) 15/288,370 Additional numbers at	B. Patent No.(s)			
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: <u>One</u>			
Name: Jefferson IP Law, LLP	<b>7. Total fee</b> (37 CFR 1.21(h) & 3.41) \$			
Internal Address: Wonki Park	Authorized to be charged by credit card			
	Authorized to be charged to deposit account			
Street Address: 1130 Connecticut Ave., NW, Suite 420	Enclosed     None required (government interest not affecting title)			
City: Washington	8. Payment Information			
State: DC Zip:20036	a. Credit Card Last 4 Numbers Expiration Date			
Phone Number: <u>202-293-0804</u>	· · · · · ·			
Fax Number: 202-403-3587	b. Deposit Account Number Authorized User Name			
Email Address: usdocketing@jeffersonip.com				
9. Signature: /Wonki PARK/ Reg. No. 3	8,991 October 7, 2016			
Signature	October 7, 2013 Date			
Wonki Park	Total number of pages including cover 4			
Name of Person Signing Documents to be recorded (including cover shee				
Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450				

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#### <u>Assignment</u>

WHEREAS, the following inventors, namely 1) Raghavendra Kalose MATHSYENDRANATH, 2) Alok Shankarlal SHUKLA, 3) Pradeep CHOUDHARY, and 4) Karthik NARAYANAN (hereinafter called "Assignors"), having made or discovered certain new, useful and non-obvious improvements in an invention having a working title of:

## METHOD FOR PROVIDING INDICATION IN MULTI-DIMENSIONAL MEDIA IN ELECTRONIC DEVICE.

for which a United States Patent Application is being filed concurrently herewith or, if not being concurrently filed, was filed on <u>October 7, 2016</u>, and assigned Serial No. <u>15/288,370</u>; and

WHEREAS, Samsung Electronics Co., Ltd., a corporation duly organized under the laws of the Republic of Korea, located and doing business at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, 16677 (hereinafter called "Assignee"), is desirous of acquiring the entire right, title and interest therein;

NOW, THEREFORE, BE IT KNOWN that for and in good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors do hereby sell, assign and transfer unto said Assignee the entire and exclusive worldwide right, title and interest in and to all said inventions and discoveries disclosed in said application, and in and to said application, any and all substitutions, divisions, provisionals, conversions of provisionals and continuations thereof, and in and to all Letters Patent, United States and foreign, that may be granted for said inventions and discoveries, and in and to all extensions, renewals and reissues thereof; and the right to file any foreign application and/or claim priority under the provisions of any international treaty or convention arising from this application or any divisional, continuing, substitute or reissue application therefrom. The aforesaid assignment includes the right in and to all income, royalties, damages and payments, now or hereafter due or payable with respect to any Letters Patent which may be granted, and in and to all causes of action (either in law or in equity), and the right to sue, counterclaim, and recover for past, present and future infringement of the rights assigned or to be assigned under this Assignment, as fully and entirely as the same would have been held and enjoyed by Assignors if this sale, assignment and transfer had not been made,

Assignors covenant and agree, without further compensation to said Assignors but at Assignee's expense:

- a. to execute:
  - i. all papers to be used in connection with this application and any divisional, continuing, substitute or reissue application thereof, as the Assignee may deem necessary or expedient, and
  - ii. all papers in connection with any interference, litigation, mediation, arbitration or other proceeding relating to this application or any divisional, continuing, substitute or reissue application thereof, as may be necessary or expedient;
- b. to cooperate with the Assignce in every way possible in obtaining evidence and going forward in any interference, litigation, mediation, arbitration or other

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proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof;

- c. to communicate to the Assignee any facts relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof, including evidence for any interference, litigation, mediation, arbitration or other proceeding relating to said invention, whenever requested;
- d. to testify in any interference, litigation, mediation, arbitration or other proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof whenever requested; and
- c. to perform all other affirmative acts which may be necessary or desirable to secure full and complete protection of the inventions and discoveries or that may be necessary or desirable to vest in Assignee the complete title to the inventions and discoveries and Letters Patent hereby conveyed and to enable Assignee to record title.

Assignors hereby authorize and request the United States Patent and Trademark Office or any other issuing authority to issue any and all Letters Patent that may be granted upon this invention and/or this application or any divisional, continuing, substitute or reissue application thereof to the Assignee, its legal representatives, successors and assigns.

Assignors each hereby represents, covenants and warrants that he or she has the full right to convey the entire right, title and interest by this instrument, free of any encumbrances and that no other agreement has been or will be executed in conflict herewith.

The provisions of this Assignment are binding upon Assignors' heirs, legal representatives and/or administrators and assigns.

Assignors hereby grant to the law firm of Jefferson IP Law, LLP of Washington, DC and its attorneys and agents as associated with **Customer No. 68103** the authority and power to insert on this instrument any further identification which may be necessary or desirable for purposes of recordation in the United States Patent and Trademark Office or a Patent Office of any foreign country.

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2.

#### DOCKET NO.: 0202-1344 CLIENT REF.: SP16246-US\_DMC SAMSUNG REF.: WI-201510-021-1-US0

Signature of Inventor:

CHAR-KH

Raghavendra Kalose MATHSYENDRANATH 05-00-2016

Date

Signature of Inventor:

5th Oct 2016

5th Oct 2016

Alok Shankarlal SHUKLA

Date

Signature of Inventor:

Pradeep CHOUDHARY

Signature of Inventor:

Karthik NARAYANAN

2016

Date

Date