

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DONG-SOO KIM	09/08/2015
HWA-YONG KANG	09/08/2015
YOUNG-KWON YOON	09/09/2015
JIAN CHANG	09/08/2015
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<b>Street Address:</b>	129, SAMSUNG-RO
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<b>City:</b>	SUWON-SI, GYEONGGI-DO
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>Postal Code:</b>	16677
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14854598
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	29871US01 (SP15125-US)
<b>NAME OF SUBMITTER:</b>	WILHELM L. RAO
<b>SIGNATURE:</b>	/Wilhelm L. Rao/
<b>DATE SIGNED:</b>	09/15/2015
<b>Total Attachments: 5</b>	

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## ASSIGNMENT

AS A BELOW NAMED INVENTOR, I and each of us, individually hereby declare that: IN CONSIDERATION of the sum of TEN (\$10.00) or the equivalent thereof, and other good and valuable consideration, the receipt of which from the hereinafter named ASSIGNEE is hereby acknowledged, I do hereby sell, assign and forever grant and convey unto:

**ASSIGNEE:** Samsung Electronics Co., Ltd.

**ADDRESS:** 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677  
Republic of Korea

Who is my ASSIGNEE, and to the successors and assigns of my ASSIGNEE, all my right, title and interest, in and for the United States of America and all other countries, including all rights of priority, in and to the invention entitled:

**TITLE: METHOD FOR ENHANCING NOISE CHARACTERISTICS OF IMAGE AND ELECTRONIC DEVICE THEREOF**

invented by me (*if only one inventor is named below*) or us (*if more than one inventor is named below*) and described in an application for a United States patent, the specification of which is either attached hereto or otherwise accompanies this Assignment or indicates an Attorney Docket No. 29871US01 (SP15125-US\_DMS), or is more particularly identified as:

\_\_\_ executed on even date herewith, or

X Serial No. 14/854,598 filed in the U.S. Patent and Trademark Office on  
September 15, 2015, or

\_\_\_ executed on \_\_\_\_\_,

and in and to all United States patents which may be granted thereon and therefore, and in and to all certificates of corrections, divisions, continuations, continuations-in-part, divisionals, designs, appeals, reissues, reexaminations, substitutions and any extensions thereof; said interest being the entire ownership of the patent when granted, to be held and enjoyed by said **SAMSUNG ELECTRONICS CO., LTD.**, my ASSIGNEE, its successors, assigns or other legal representatives, to the full end of the term, terms or any extension of renewal thereof, for which said patent or patents may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment, sale and conveyance had not been made;

AND I hereby covenant and agree to sign and execute any further documents or instruments which may from time-to-time be either necessary, lawful, proper or requested by the ASSIGNEE, in the prosecution of the above-named application or in the preparation and prosecution of any certificate of correction, division, continuation, continuation-in-part, reissue, reexamination, in any amendment, extension or interference proceeding, whether administrative or judicial, or otherwise, to secure the title hereto in said ASSIGNEE;

AND I do hereby authorize and request the Commissioner of Patents and Trademarks to issue said patent for said invention, or patents resulting therefrom, insofar as our interest is concerned, to the said ASSIGNEE of our entire right, title and interest.

AND I further authorize and direct the ASSIGNEE and its attorney to insert above, the serial number and filing date of said application now identified as Attorney Docket No. 29871US01 (SP15125-US\_DMS), as soon as the same shall have been made known to them by the United States Patent and Trademark Office.

AND I further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto, and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/we have set our hands and seals on the dates written beside my/our respective names:

**INVENTOR 1**

ASSIGNOR:

Dongsoo Kim  
Dong-Soo KIM

Date: Sept - 08 - 2015

BOOK  
Witness Signature

Date: Sep. 8, 2015

Hye-Ji PARK  
Witness Name (Printed)

**INVENTOR 2**

ASSIGNOR:

Hwa-Yong Kang  
Hwa-Yong KANG

Date: Sept - 08 - 2015

Plolke  
Witness Signature

Date: Sep. 8, 2015

Hye-Ji PARK  
Witness Name (Printed)

**INVENTOR 3**

ASSIGNOR:

Young Kwon Yoon  
Young-Kwon YOON

Date: Sep 9 2015

D. Park  
Witness Signature

Date: Sep. 9, 2015

Hye-Ji PARK  
Witness Name (Printed)

**INVENTOR 4**

ASSIGNOR:

CHANG, JIAN  
Jian CHANG

Date: Sep-08-2015

Park  
Witness Signature

Date: Sep. 8, 2015

Hye-Ji PARK  
Witness Name (Printed)