#### 503553129 11/03/2015

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3599756

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
BYUNGIN YOO	10/23/2015
CHANG KYU CHOI	10/23/2015
JAEJOON HAN	10/23/2015

#### **RECEIVING PARTY DATA**

Name:	Samsung Electronics Co., Ltd.
Street Address:	129 Samsung-ro, Yeongtong-gu
City:	Suwon-si, Gyeonggi-do
State/Country:	KOREA, REPUBLIC OF
Postal Code:	443-742

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14931170

#### CORRESPONDENCE DATA

Fax Number: (703)668-8200

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.

Phone: 703-668-8000

Email: dcmailroom@hdp.com

HARNESS, DICKEY & PIERCE, P.L.C. **Correspondent Name:** 

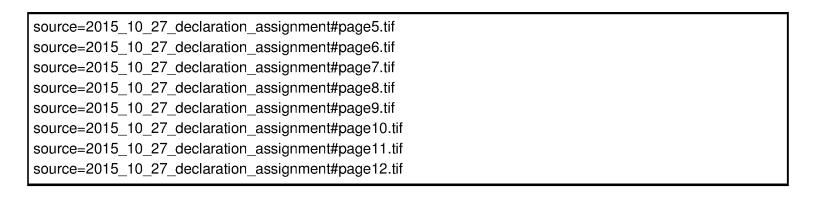
Address Line 1: P.O. BOX 8910

Address Line 4: RESTON, VIRGINIA 20195

ATTORNEY DOCKET NUMBER:	9587SI-000222-US
NAME OF SUBMITTER:	GARY D. YACURA, REG # 35,416
SIGNATURE:	/Gary D. Yacura/
DATE SIGNED:	11/03/2015

#### **Total Attachments: 12**

source=2015\_10\_27\_declaration\_assignment#page1.tif source=2015\_10\_27\_declaration\_assignment#page2.tif source=2015\_10\_27\_declaration\_assignment#page3.tif source=2015\_10\_27\_declaration\_assignment#page4.tif



# COMBINED DECLARATION (37 CFR §1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM<sup>1</sup> FOR MORE THAN ONE ASSIGNEE

The undersigned acknowledge that this document is being used both as an assignment of

the invention and as the declaration (37 CFR 1.63) for a Utility or Design Application. WHEREAS, the undersigned inventors have invented: Title: DEVICE AND METHOD TO GENERATE IMAGE USING IMAGE LEARNING MODEL for which Inventors are about to make or has made United States or International application for patent. WHEREAS, as a below named inventor(s), I/(we) hereby declare that: Section I. Declaration This declaration is directed to: 冈 The attached U.S. non-provisional patent application, or U.S. non-provisional patent application number \_\_\_\_\_\_\_, filed PCT international patent application number \_\_\_\_\_\_, filed on The above-identified application was made or authorized to be made by me (us). I (we) believe that I am (we are) the original inventor (original joint inventors) of a claimed invention in the above-identified application. I (we) 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. <sup>1</sup> This form requires the use of an Application Data Sheet. SEC Ref No. RA-201407-001-1-US0 Attorney Ref No. 9587S1-000222-US COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM

Page 1 of 6

SAMSUNG ELECTRONICS CO., LTD.

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims.

I acknowledge that I am aware of the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

#### Section II. Assignment

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, collectively referred to in Section II as Assignors in this section, hereby sell(s) and assign(s) to

#### Samsung Electronics Co., Ltd.

having an address at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742, Republic of Korea (hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 USC §100, in the invention described in the application identified in Section I of this document.

Assignor hereby confirms any prior assignment to Assignee, and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part,

SEC Ref No.	RA-201407-001-1-US0	Attorney Ref No.	9587SI-000222-US

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM Page 2 of 6

divisional, renewal or substitute thereof, and as to letters patent any reissue, reexamination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee.

The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.C. the power to insert on this Declaration and Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Inventor(s)/Assignor(s) Signature(s) for Section II.

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FIRST INVENTOR/ASSIGNOR	YOO	Byungin	
	N -		
	Oltran)	DATE	October 23, 2015

SEC Ref No.	RA-201407-001-1-US0	Attorney Ref No.	9587S1-000222-US

LEGAL NAME OF SECOND	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	CHOI	Chang Kyu	
SIGNATURE _	May 24	DATE	October 23, 2015

LEGAL NAME OF THIRD	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	HAN	Jaejoon	
			,
SIGNATURE	John Mr.	DATE	October 23, 2015

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In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, collectively referred to in Section III as Assignors in this section, hereby sell(s) and assign(s) to

### Korea Advanced Institute of Science and Technology

having an address at 291, Daehak-ro, Yuseong-gu, Daejeon 305-701, Republic of Korea (hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 USC §100, in the invention described in the application identified in Section I of this document.

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SEC Ref No.	RA-201407-001-1-US0	Attorney Ref No.	9587SI-000222-US
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COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM Page 4 of 6

United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

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COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM Page 5 of 6

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FOURTH INVENTOR/ASSIGNOR	YIM	Jun Ho	
SIGNATURE		DATE —	
LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FIFTH INVENTOR/ASSIGNOR	KIM	Jun Mo	

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FIFTH INVENTOR/ASSIGNOR	KIM	Jun Mo	
SIGNATURE		DATE	
_		_	

LEGAL NAME OF SIXTH	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	JUNG	Hee Chul	
SIGNATURE		DATE -	

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SEC Ref No. RA-201407-001-1-US0 Attorney Ref No. 9587SI-000222-US

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM Page 6 of 6

## COMBINED DECLARATION (37 CFR §1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM<sup>1</sup> FOR MORE THAN ONE ASSIGNEE

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COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM Page 1 of 6

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COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
Page 2 of 6

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#### Inventor(s)/Assignor(s) Signature(s) for Section II.

LEGAL NAME OF FIRST	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	Y00	Byungin	
1000000			***
SIGNATURE _		DATE —	

SEC Ref No	RA-201407-001-1-US0	Attorney Ref No	9587SI-000222-US
COMBINED DEC	CLARATION (37 CFR 1.63) FOR UTIL	ITY PATENT APPLICATION	N AND ASSIGNMENT FORM

Page 3 of 6

LEGAL NAME OF SECOND INVENTOR/ASSIGNOR  CHOI  Chang Kyu  DATE  LEGAL NAME OF THIRD HAN Jaejoon  SIGNATURE  SIGNATURE  DATE  SIGNATURE  SECOND Given Name First Given Name Second Given Name THIRD HAN Jaejoon  DATE  SIGNATURE  SECOND HAN Jaejoon  DATE  SECOND HAN Jaejoon  DATE  SECOND Given Name Frist Given Name Second Given Name THIRD HAN Jaejoon  DATE  SECOND HAN JAEJOON HAN J				
SIGNATURE    DATE		Family Name	First Given Name	Second Given Name
LEGAL NAME OF THIRD INVENTOR/ASSIGNOR HAN Jaejoon  SIGNATURE  SIGNATURE  Section III. Assignment  In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, collectively referred to in Section III as Assignors in this section, hereby sell(s) and assign(s) to  Korea Advanced Institute of Science and Technology  having an address at 291, Daehak-ro, Yuseong-gu, Daejeon 305-701, Republic of Korea (hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 USC \$100, in the invention described in the application identified in Section I of this document.  Assignor hereby confirms any prior assignment to Assignee, and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the  SEC Ref No. RA-201407-001-1-USO Attorney Ref No. 9587SI-000222-US		CHOI	Chang Kyu	
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COMBINED DECLARATION (37 CER 1 63) FOR LITH ITV PATENT APPLICATION AND ASSIGNMENT FORM	SEC Ref No. RA-2	01407-001-1-US0	Attorney Ref No.	9587SI-000222-US
	COMBINED DECLARATION	1/37 CER 1 63\ EOR HTH	ITV PATENT ADDI ICATION A	AND ASSIGNMENT FORM

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United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee.

The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.C. the power to insert on this Declaration and Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

SEC Ref No.	RA-201407-001-1-US0	Attorney Ref No	9587S1-000222-US

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
Page 5 of 6

#### Inventor(s)/Assignor(s) Signature(s) for Section III.

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FOURTH INVENTOR/ASSIGNOR	YIM	Jun Ho	
	LM	DATE	0.015 1/0.22
SIGNATURE _	July -	_	2015.10.22

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FIFTH INVENTOR/ASSIGNOR	KIM	Jun Mo	

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	JUNG	Hee Chul	
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SEC Ref No. RA-201407-001-1-US0 Attorney Ref No. 9587SI-000222-US

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM Page 6 of 6

PATENT REEL: 036951 FRAME: 0088

**RECORDED: 11/03/2015**