



FORM PTO-1595

©2011 Staas &amp; Halsey LLP

To the Director of the U.S. Patent and

11/16/2012



103651631

ET

U.S. DEPARTMENT OF COMMERCE

cument.

1. Name of conveying party(ies):  
1.) Jung Uk CHO  
2.) Seung Yong LEE  
3.) Young Su MOON  
4.) Shi Hwa LEE  
5.) Chi Young LEE  
6.) Sung Hyun CHO  
7.) Ho Jin CHO
2. Name and Address of receiving party(ies):  
**SAMSUNG ELECTRONICS CO., LTD.**  
129, Samsung-ro, Yeongtong-gu,  
Suwon-si, Gyeonggi-do 443-742  
Republic of Korea
- POSTECH ACADEMY-INDUSTRY FOUNDATION**  
Pohang Univ. of Science & Technology, San 31  
Hyoja-dong, Nam-gu, Pohang-si  
Gyeongsangbuk-do 790-784  
Republic of Korea
3. Nature of conveyance:  
☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other: \_\_\_\_\_  
Execution Date(s): November 2, 2012
4. Application number(s) or patent number(s):  
☐ This document is being filed together with a new application.  
OR  
☒ This document is being filed after filing of the application:  
(a) Patent Application No. 13/669,962, filed November 5, 2012; or  
(b) Patent No(s).
5. Name and address of party to whom correspondence concerning document should be mailed:  
STAAS & HALSEY LLP Our Docket: 1911.1621  
Attention: Gene M. Garner, II  
1201 New York Ave., N.W., 7th Floor  
Washington, D.C. 20005
6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 3.41)..... (\$ 40.00 per Patent or Application in Assignment)  
☒ Enclosed  
☐ Authorized to be charged to credit card.  
☐ Authorized to be charged to deposit account.
8. Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account)  
(Attach duplicate copy of this page if paying by deposit account)

Gene M. Garner, II, Reg. No. 34,172  
Name of Person Signing

Signature

Date

Total number of pages including cover sheet: 7

DO NOT USE THIS SPACE

# U.S. ASSIGNMENT

SAH 1.00

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by

(Insert Name(s) & Address(es) of ASSIGNEE(S))

**SAMSUNG ELECTRONICS CO., LTD.**  
129, Samsung-ro, Yeongtong-gu,  
Suwon-si, Gyeonggi-do 443-742  
Republic of Korea

**POSTECH ACADEMY-INDUSTRY FOUNDATION**  
Pohang Univ. of Science & Technology, San 31  
Hyoja-dong, Nam-gu, Pohang-si  
Gyeongsangbuk-do 790-784  
Republic of Korea

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled  
(Title of Invention)

## METHOD AND APPARATUS FOR ROBUST ESTIMATION OF NON-UNIFORM MOTION BLUR

relating to International Patent Application PCT/KR\_\_\_\_/\_\_\_\_\_ and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on ;

(Insert date of execution of application, if not concurrent)

(b) filed on , (Concurrently)

Serial No. ;

Any registered attorney or agent of STAAS & HALSEY LLP, 1201 New York Avenue, N.W., Suite 700 Washington, D.C. 20005 (202/434-1500) is hereby authorized to insert in (b) the specified data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

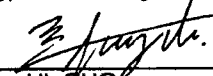
The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).


(Typed Name & Signature of Inventor(s))

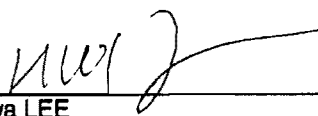
(Date)

(Typed Name & Signature of Witness(es))

1)  November 2, 2012  
Jung Uk CHO

2) \_\_\_\_\_  
Seung Yong LEE

3)  November 2, 2012  
Young Su MOON

- 4)  November 2, 2012 \_\_\_\_\_  
Shi Hwa LEE
- 5) \_\_\_\_\_  
Chi Young LEE
- 6) \_\_\_\_\_  
Sung Hyun CHO
- 7) \_\_\_\_\_  
Ho Jin CHO

# U.S. ASSIGNMENT

S&H 1A0

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by

(Insert Name(s) & Address(es) of ASSIGNEE(S))

SAMSUNG ELECTRONICS CO., LTD.  
129, Samsung-ro, Yeongtong-gu,  
Suwon-si, Gyeonggi-do 443-742  
Republic of Korea

POSTECH ACADEMY-INDUSTRY FOUNDATION  
Pohang Univ. of Science & Technology, San 31  
Hyoja-dong, Nam-gu, Pohang-si  
Gyeongsangbuk-do 790-784  
Republic of Korea

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled  
(Title of Invention)

## METHOD AND APPARATUS FOR ROBUST ESTIMATION OF NON-UNIFORM MOTION BLUR

relating to International Patent Application PCT/KR\_\_\_\_/\_\_\_\_\_ and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on ;

(Insert date of execution of application, if not concurrent)

(b) filed on , (Concurrently)

Serial No. ;

Any registered attorney or agent of STAAS & HALSEY LLP, 1201  
New York Avenue, N.W., Suite 700 Washington, D.C. 20005  
(202/434-1500) is hereby authorized to insert in (b) the specified  
data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Typed Name & Signature of Inventor(s))

(Date)

(Typed Name & Signature of Witness(es))


1) \_\_\_\_\_  
Jung Uk CHO

2) \_\_\_\_\_  
Seung Yong LEE

3) \_\_\_\_\_  
Young Su MOON

4) \_\_\_\_\_  
Shi Hwa LEE

5) \_\_\_\_\_  
Chi Young LEE

6)  \_\_\_\_\_ November 2, 2012  
Sung Hyun CHO

7) \_\_\_\_\_  
Ho Jin CHO

## U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by

(insert Name(s) & Address(es) of ASSIGNEE(S))

SAMSUNG ELECTRONICS CO., LTD.  
129, Samsung-ro, Yeongtong-gu,  
Suwon-si, Gyeonggi-do 443-742  
Republic of Korea

POSTECH ACADEMY-INDUSTRY FOUNDATION  
Pohang Univ. of Science & Technology, San 31  
Hyoja-dong, Nam-gu, Pohang-si  
Gyeongsangbuk-do 790-784  
Republic of Korea

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled  
(Title of Invention)

### METHOD AND APPARATUS FOR ROBUST ESTIMATION OF NON-UNIFORM MOTION BLUR

relating to International Patent Application PCT/KR / and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on :

(Insert date of execution of application, if not concurrent)

(b) filed on : (Concurrently)

Serial No. :

Any registered attorney or agent of STAAS & HALSEY LLP, 1201  
New York Avenue, N.W., Suite 700 Washington, D.C. 20005  
(202/434-1500) is hereby authorized to insert in (b) the specified  
data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Typed Name & Signature of inventor(s))

(Date)

(Typed Name & Signature of Witness(es))

1) Jung Uk CHO

2) Seung Yong LEE

3) Young Su MOON

November 2, 2012

4) Shi Hwa LEE

5) *Seonhyang* November 2, 2012  
Chi Young LEE

6) Sung Hyun CHO

7) *Hojin Cho* November 2, 2012  
Ho Jin CHO