

Attorney Docket: 8021-338 (SS-23416-US)

U.S. DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

Form PTO-1595 (Rev. 06/04)

OMB No. 0651-0027 (exp. 6/30/2005)

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Heo-Jin BYEON (1/4/06), Kyoung-Mook LIM (3/13/06),
Hyung-Jun LIM (3/15/06), Seh-Woong JEONG
(3/15/06), Jae-Hong PARK (3/15/06), Sung-Cheol
PARK (3/15/06)

1/4/2006 (HJB), 3/13/2006 (KML),

Execution Date(s) 3/15/2006 (HJL, SWJ, JHP, SCP)

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance:**

- ☐ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424 Confirmatory License
☒ Other Reel/Frame: 017714/0111

2. Name and address of receiving party(ies)Name: Samsung Electronics Co., Ltd.

Internal Address: _____

Street Address: 416, Maetan-dong,Yeongtong-gu, Gyeonggi-doCity: Suwon-si

State: _____

Country: KOREA

Zip: _____

Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application or patent number(s):**☐ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Serial No.: 11/311,697Filing Date: December 19, 2005Additional numbers attached? ☐ Yes ☐ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: Frank Chau

Internal Address: _____

Street Address: 130 Woodbury RoadCity: WoodburyState: New YorkZip: 11797Phone Number: 516-692-8888Fax Number: 516-692-8889Email Address: mail@chauiplaw.com**6. Total number of applications and patents involved:**1**7. Total fee (37 CFR 1.21(h) & 3.41) \$** 40.00

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☐ Authorized to be charged to deposit account
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☐ None required (government interest not affecting title)

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Signature

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OP \$40.00 11311697

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PATENT
REEL: 018001 FRAME: 0326

03-29-2006

ney Docket: 8021-338 (SS-23416-US)

Form PTO-1595
1-31-92

U.S. DE
Patent

3/27/06



103206742

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies)
Heo-Jin BYEON, Kyoung-Mook LIM,
Hyung-Jin LIM, Seh-Woong JEONG,
Jae-Hong PARK, Sung-Cheol PARK

Additional name(s) of conveying party(ies)
attached? ☐ Yes ☒ No

2. Name and address of receiving
party(ies):

Name: SAMSUNG ELECTRONICS CO., LTD.
Internal Address: 416, Maetan-dong,
Yongtong-gu, Suwon-si, Gyeonggi-do, Korea

Additional name(s) & address(es)
attached: ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: January 1, 2006 (HJB); March
13, 2006 (KML); March 15, 2006 (HJL, SWJ,
JHP, SCP)

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date
of the application is:

A. Patent Application No. (s)
11/311,697

B. Patent No. (s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom
correspondence concerning document
should be mailed:

Name: Frank Chau, Esq.
Street Address: F. CHAU & ASSOCIATES, LLC
130 Woodbury Road
City: Woodbury State: NY Zip: 11797

6. Total number of applications and
patents involved: 1

7. Total fee (37 C.F.R. §3.41): \$40.00
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To the best of my knowledge and belief, the foregoing information is true and
correct and any attached copy is a true copy of the original document.

Eric M. Parham
Registration No. 45,747
Name of Person Signing

E. Parham
Signature

March 24, 2006
Date

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PATENT

REEL: 018001 FRAME: 0327

ASSIGNMENTDOCKET NO.: 8021-338 (SS-23416-US)

AS A BELOW NAMED INVENTOR, I, and each of us, individually hereby declare that: IN CONSIDERATION of the sum of TEN (\$10.00) dollars 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: 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, KOREA

Who is my Assignee, and to the successes 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: **DIGITAL PROCESSING SYSTEM AND METHOD FOR TRACKING
SUBCARRIER INCLUDED IN VIDEO SIGNAL**

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. _____, or is more particularly identified as:

- ☐ executed on even date herewith, or
☒ Serial No. 11/311,697 filed in the U.S. Patent & Trademark Office on December 19, 2005,
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, reissued and re-examined patents, and to 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 or 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, re-examination, 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 or Patents to the Assignee, and I hereby appoint as my, or our attorney, and authorize and request Frank Chau, Reg. No. 34,136, to insert on this Assignment any further identification or to complete such identification which may be either necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

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

INVENTOR(S)**Date Signed**

1) Byeon, Heo-Jin
HEO-JIN BYEON

1-4-2006

2) _____
KYOUNG-MOOK LIM

3) _____
HYUNG-JUN LIM

4) _____
SEH-WOONG JEONG

5) _____
JAE-HONG PARK

6) _____
SUNG-CHEOL PARK

ASSIGNMENT

DOCKET NO.: 8021-338 (SS-23416-US)

AS A BELOW NAMED INVENTOR, I, and each of us, individually hereby declare that: IN CONSIDERATION of the sum of TEN (\$10.00) dollars 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: 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, KOREA

Who is my Assignee, and to the successes 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: **DIGITAL PROCESSING SYSTEM AND METHOD FOR TRACKING SUBCARRIER INCLUDED IN VIDEO SIGNAL**

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. _____, or is more particularly identified as:

- ☐ executed on even date herewith, or
- ☒ Serial No. 11/311,697 filed in the U.S. Patent & Trademark Office on December 19, 2005, 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, reissued and re-examined patents, and to 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 or 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, re-examination, 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 or Patents to the Assignee, and I hereby appoint as my, or our attorney, and authorize and request Frank Chau, Reg. No. 34,136, to insert on this Assignment any further identification or to complete such identification which may be either necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

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

INVENTOR(S)Date Signed

- | | |
|--|----------------------|
| 1) _____
HEO-JIN BYEON | _____ |
| 2) <u>Kyoung Mook Lim</u>
KYOUNG-MOOK LIM | <u>13 March 2006</u> |
| 3) <u>HYUNGJUN LIM</u>
HYUNG-JUN LIM | <u>15 March 2006</u> |
| 4) <u>SEH WOONG JEONG</u>
SEH-WOONG JEONG | <u>15 March 2006</u> |
| 5) <u>Jaehong Park</u>
JAE-HONG PARK | <u>15 March 2006</u> |
| 6) <u>SUNG-CHEOL PARK</u>
SUNG-CHEOL PARK | <u>15 March 2006</u> |