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Attorney Docket No: 5004-1-112

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TO THE ASSISTANT COMMISSIONER FOR PATENTS

1. Name of conveying party(ies):
Seung Yong HYUNG; Jong Owan KIM;
Jong Chang LEE; Jong Ho PARK; Hyun Sik SHIM;
Kun Hak LEE

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

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name

Other: _____

Execution Date: December 24, 2008

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

Name: SAMSUNG ELECTRONICS CO.; LTD.Address: 416, MAETAN-DONG, YEONGTONG-GUSUWON-SI, GYEONGGI-DOREPUBLIC OF KOREAAdditional name(s) & address(es) attached? ☐ Yes ☒ No

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: December 24, 2008

A. Patent Application No.(s)

12/343,653

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Steve Cha

Address: CHA & REITER
210 Route 4 East, Suite #103
Paramus, New Jersey 07652

6. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$40.00☒ Enclosed☐ Authorized to be charged to deposit account, if necessary
- for overages or underpayments only8. Deposit account number: 502-470

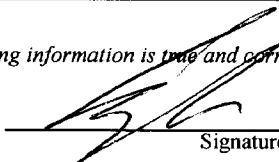
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9. Statement and signature.

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.

Steve Cha, Reg No.44,069
Name of Person Signing


Signature

12/29/08
Date

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(BDSM 8)
(9/94)

PATENT
REEL: 022059 FRAME: 0045

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for and in consideration of TEN (\$10.00) DOLLAR,

1) Seung Yong HYUNG	of	No. 104-305, Neulpureun Apt., Samga-dong, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea
2) Jong Owan KIM	of	No. 613-1203, Narumaeulsindobraenew Apt., Bansong-dong, Hwaseong-si, Gyeonggi-do, Republic of Korea
3) Jong Chang LEE	of	No. 105-2903, Royal Palace Apt., 514, Songjuk-dong, Jangan-gu, Suwon-si, Gyeonggi-do, Republic of Korea
4) Jong Ho PARK	of	No. 102-1903, SK Apt., Seogeune-maeul, Seocheon-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
5) Hyun Sik SHIM	of	No. 283-204, Hyeondae Seongwoo 3-cha Apt., Sanghyeon-maeul, 855, Sanghyeon-dong, Suji-gu, Yongin-si, Gyeonggi-do, Republic of Korea
6) Kun Hak LEE	of	No. 136-801, Hwanggol maeul 1-danji Apt., Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea

(hereinafter Assignor) hereby sells, assigns, transfers, and sets over unto:

SAMSUNG ELECTRONIC CO., LTD. of
416, MAETAN-DONG, YEONGTONG-GU, SUWON-SI, GYEONGGI-DO,
REPUBLIC OF KOREA

(hereinafter **Assignee**) the entire right, title and interest for the United States Of America as defined in 35 U.S.C. ' 1.00. in and to the invention entitled as:

METHOD AND APPARATUS FOR DETECTING MOVEMENT ERROR IN MOBILE ROBOT

invented by Assignor; the application for United States patent therefor, invented by Assignor; any patent

SIGNED ON THE DATES(S) INDICATED BESIDE MY/OUR SIGNATURE(S):

Seung Yong Hyeon
Signature of inventor

Dated: Dec. 24, 2008

WITNESSED:

Jang Owan Kim
Signature of inventor

Dated: Dec. 24, 2008

WITNESSED: _____

Teng Chang Lee
Signature of inventor

Dated: Dec, 24, 2008

WITNESSED: _____

Jung Ho Park
Signature of inventor

WITNESSED:

Hyun Sik Shin
Signature of inventor

WITNESSED: B

Kun Hak Lee
Signature of inventor

WITNESSED: D