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1. Name of conveying parties:

Bing-rong HONG
Rong-hua LUO
Mao-hai LI

Seok-won BANG
Yeon-ho KIM
Hyeon MYEONG

09-19-2007



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2. Name and Address of receiving parties:

SAMSUNG ELECTRONICS CO., LTD.
416, Maetan-dong, Yeongtong-gu,
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HARBIN INSTITUTE OF TECHNOLOGY
No. 92, West Da-Zhi Street
Harbin, Heilongjiang, 150001
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3. Nature of conveyance:

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☐ Other: _____

Execution Date: September 4, 2007

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☒ 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(s). , filed ; or
(b) Patent No(s). , issued .

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

STAAS & HALSEY LLP

Our Docket: 1907.1181

Attention: Stephen T. Boughner

1201 New York Ave., N.W., Suite 700
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 deposit account.

8. Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account)
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Stephen T. Boughner, Reg. No. 45,317
Name of Person Signing

Signature

September 10, 2007

Date

Total number of pages including cover sheet: 2

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PATENT
REEL: 019871 FRAME: 0041

U.S. ASSIGNMENT

SECTION

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.
416, Maetan-dong, Yeongtong-gu
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P.R. China

(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, MEDIUM, AND SYSTEM ESTIMATING POSE OF MOBILE ROBOTS

relating to International Patent Application PCT/JP 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 September 4, 2007 (Insert date of execution of application, if not concurrent)

(b) filed on

Serial No.:

Any registered attorney 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) Bing rong HONG September 4, 2007
Bing rong HONG
- 2) Rong hua LUO September 4, 2007
Rong hua LUO
- 3) Mao hai LI September 4, 2007
Mao hai LI
- 4) Seok-won BANG September 4, 2007
Seok-won BANG
- 5) Yeon-ho KIM September 4, 2007
Yeon-ho KIM
- 6) Hyeon, MYEONG September 4, 2007
Hyeon, MYEONG

PATENT

RECORDED: 09/10/2007

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