

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Sukjune YOON</td> <td>07/25/2007</td> </tr> <tr> <td>Kyung Shik ROH</td> <td>07/25/2007</td> </tr> <tr> <td>Woosup HAN</td> <td>07/25/2007</td> </tr> <tr> <td>Seung Ki MIN</td> <td>07/25/2007</td> </tr> </tbody> </table>		Name	Execution Date	Sukjune YOON	07/25/2007	Kyung Shik ROH	07/25/2007	Woosup HAN	07/25/2007	Seung Ki MIN	07/25/2007
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Seung Ki MIN	07/25/2007										
RECEIVING PARTY DATA											
Name:	SAMSUNG Electronics Co., Ltd.										
Street Address:	416 Maetan-dong, Yeongtong-gu										
City:	Suwon-si, Gyeonggi-do										
State/Country:	KOREA, REPUBLIC OF										
PROPERTY NUMBERS Total: 1											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11830883</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11830883						
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Application Number:	11830883										
CORRESPONDENCE DATA											
Fax Number:	(202)775-1901										
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NAME OF SUBMITTER:	Seungman Kim										
Total Attachments: 1 source=Assignment#page1.tif											

OP \$40.00 11830883

PATENT

500324643

REEL: 019623 FRAME: 0276

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.
416 Maetan-dong, Yeongtong-gu
Suwon-si, Gyeonggi-do
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

METHOD AND APPARATUS TO DETERMINE ROBOT LOCATION USING OMNI-DIRECTIONAL IMAGE

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

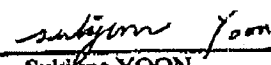
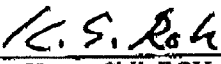
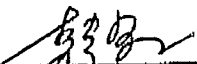

(a) executed on _____ (insert date of execution of application, if not concurrent)
(b) filed on _____

Serial No. _____ *** Any registered attorney of Stanzone & Kim, LLP, 919 12th Street, N.W., Washington, D.C. 20006, is hereby authorized to insert in section (b) above the specified date, 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/hers/their signature(s).

(Typed Name & Signature of Inventor(s))	(Date)
1) <u></u> Sukjine YOON	<u>July 25, 2007</u>
2) <u></u> Kyung Shik ROH	<u>July 25, 2007</u>
3) <u></u> Woosup HAN	<u>July 25, 2007</u>
4) <u></u> Seung Ki MIN	<u>July 25, 2007</u>