

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Kap Sik Yoo	04/27/2009
RECEIVING PARTY DATA	
Name:	Samsung SDS Co., Ltd.
Street Address:	Irok Building, 707-19, Yeoksam 2-dong, Gangnam-gu
City:	Seoul
State/Country:	REPUBLIC OF KOREA
Postal Code:	135-918
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12444829
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	5146-090821
NAME OF SUBMITTER:	Richard L. Byrne, Reg. No. 28,498
Total Attachments: 2 source=assignment#page1.tif source=assignment#page2.tif	

OP \$40.00 12444829

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)
Kap Sik Yoo

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

2. Name and address of receiving party(ies)
Name: SAMSUNG SDS CO., LTD.
Internal Address: _____

Street Address: Irok Building, 707-19
Yeoksam 2-dong, Gangnam-gu
City: Seoul
State: _____
Country: REPUBLIC OF KOREA Zip: 135-918
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance/Execution Date(s):
Execution Date(s) April 27, 2009

Assignment Merger
 Security Agreement Change of Name
 Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other _____

4. Application or patent number(s): This document is being filed together with a new application.

A. Patent Application No.(s)
12/444,829

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:
Name: Richard L. Byrne
Internal Address: The Webb Law Firm

Street Address: 436 Seventh Avenue
700 Koppers Building
City: Pittsburgh
State: PA Zip: 15219
Phone Number: 412-471-8815
Fax Number: 412-471-4094
Email Address: webblaw@webblaw.com

6. Total number of applications and patents involved: 1

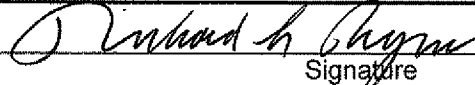
7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

Authorized to be charged by credit card
 Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

8. Payment information

a. Credit Card Last 4 Numbers 4775
Expiration Date 05/2012

b. Deposit Account Number 23-0650
Authorized User Name _____

9. Signature:  September 16, 2009
Signature Date
Richard L. Byrne, Reg. No. 28,498 Total number of pages including cover sheet, attachments, and documents: 2
Name of Person Signing

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

ASSIGNMENT

WHEREAS, I, **YOO, Kap Sik** at 510-402, Yanggivillage Hanyang Apt., Sunae-dong, Bundang-gu, Seongnam-si, Gyeonggi-do 463-922, Republic of Korea

, respectively, have invented certain new and useful improvements in the invention entitled **SYSTEM AND METHOD FOR PERFORMANCE TEST IN OUTSIDE CHANNEL COMBINATION ENVIRONMENT** for which I have this day executed an application for United States Letters Patent;

AND, WHEREAS, **SAMSUNG SDS CO., LTD**, residing in Irok Bldg, 707-19, Yeoksam 2-dong, Gangnam-gu, Seoul 135-918, Republic of Korea, hereinafter called the "assignee", is desirous of acquiring the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed.

NOW, THEREFORE, for good and valuable consideration paid to us by said assignee, the receipt of which is hereby acknowledged, we do hereby assign, sell, transfer, and set over unto said assignee the entire right, title and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, said assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by us had this assignment not been made.

The Commissioner for Patents is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said application, inventions, and improvements, that the same are unencumbered, that no license has been granted to make, use, or vend the said inventions or improvements or any of them, and that we have the full right to make this assignment.

And for the consideration aforesaid, we agree jointly and individually that we will communicate to said assignee or the representatives thereof any facts known to us respecting said inventions and improvements, and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, continuation-in-part, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said assignee or by counsel for said assignee, to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said assignee.

Date April 27, 2009

Inventor Yoo, Kap Sik

Yoo Kap Sik

(Signature of Inventor)

Date April 27, 2009

Witness CHOL, Tae Chang

Tae Chang Chol

(Signature of Witness)

{W0013818.1}