

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | |
|--|---|---------------|----------------|---------------------|------------|--------------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | |
| CONVEYING PARTY DATA | | | | | | | |
| <table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Kang Ho Lee</td><td>04/27/2009</td></tr><tr><td>Seong Bin Im</td><td>04/27/2009</td></tr></tbody></table> | | Name | Execution Date | Kang Ho Lee | 04/27/2009 | Seong Bin Im | 04/27/2009 |
| Name | Execution Date | | | | | | |
| Kang Ho Lee | 04/27/2009 | | | | | | |
| Seong Bin Im | 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 | | | | | | | |
| <table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12445567</td></tr></tbody></table> | | Property Type | Number | Application Number: | 12445567 | | |
| Property Type | Number | | | | | | |
| Application Number: | 12445567 | | | | | | |
| CORRESPONDENCE DATA | | | | | | | |
| Fax Number: | (412)471-4094 | | | | | | |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | | | | | | | |
| Phone: | 412-471-8815 | | | | | | |
| Email: | webblaw@webblaw.com | | | | | | |
| Correspondent Name: | THE WEBB LAW FIRM, P.C. | | | | | | |
| Address Line 1: | 700 KOPPERS BUILDING | | | | | | |
| Address Line 2: | 436 SEVENTH AVENUE | | | | | | |
| Address Line 4: | PITTSBURGH, PENNSYLVANIA 15219 | | | | | | |
| ATTORNEY DOCKET NUMBER: | 5146-090859 | | | | | | |
| NAME OF SUBMITTER: | Richard L. Byrne | | | | | | |
| Total Attachments: 3 source=RECOVER#page1.tif source=ASSIGN#page1.tif | | | | | | | |

OP \$40.00 12445567

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PATENT
REEL: 023345 FRAME: 0170

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)

Kang Ho LEE

Seong Bin IM

2. Name and address of receiving party(ies)

Name: SAMSUNG SDS CO., LTD.

Internal Address: _____

Additional name(s) of conveying party(ies) 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 _____

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

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

12/445,567

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

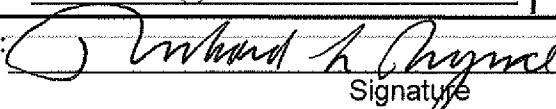
a. Credit Card Last 4 Numbers 4775

Expiration Date 05/2012

b. Deposit Account Number 23-0650

Authorized User Name _____

9. Signature:


Signature

October 8, 2009

Date

Richard L. Byrne, Reg. No. 28,498

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

3

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/ We, LEE, Kang Ho at 12th Floor, HSBC Bldg, 25, 1ka, Bongrae-dong, Chung-gu,
Seoul 100-161, Republic of Korea

IM, Seong Bin at 12th Floor, HSBC Bldg, 25, 1ka, Bongrae-dong, Chung-gu,
Seoul 100-161, Republic of Korea

, respectively, have invented certain new and useful improvements in the invention entitled
**MIGRATION APPARATUS WHICH CONVERT DATABASE OF MAINFRAME SYSTEM
INTO DATABASE OF OPEN SYSTEM AND METHOD FOR THEREOF** 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.

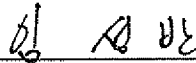
Date April 27, 2009 Inventor LEE, Kang Ho


(Signature of Inventor)

{W0013818.1}

Date April 27, 2009

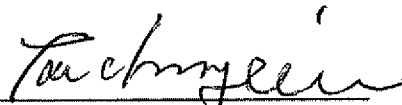
Inventor IM, Seong Bin



(Signature of Inventor)

Date April 27, 2009

Witness CHOI, Tae Chang



(Signature of Witness)

{W0013818.1}