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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Tae-ho LEE

3/29/02

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

SAMSUNG ELECTRONICS CO., LTD.

416 Maetan-dong, Paldal-gu, Suwon-city Kyungki-do, Republic of Korea

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

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date: March 18, 2002

Additional 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: March 18, 2002

A. Patent Application No.(s)

B. Patent No.(s)

10/108622

Additional numbers attached? ☐ Yes ☒ No

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

SUGHRUE MION, PLLC
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3213

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41): \$40.00

☒ Enclosed. Please charge any underpayment in connection with this Assignment to Deposit Account No. 19-4880.☐ Authorized to be charged to deposit account

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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.

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March 29, 2002

Date

Total number of pages including cover sheet, attachments, and documents: 2

Mail documents to be recorded with required cover sheet information to:

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Box Assignment

Washington, D.C. 20231

04/05/2002 LUNELLER 00000223 10108622

01 FC:581

40.00 OP

PATENT
REEL: 012748 FRAME: 0459

Assignment

Tae-ho Lee

Whereas, I/We, _____ of
 (4/3) 50-9 Sajeong-dong, Gyeongju-si, Gyeongsangbuk-do, Rep. of Korea

hereinafter called assignor(s), have invented certain improvements in
 DIGITAL MODULATION APPARATUS USED WITH DVD-RAM AND DVD-R/RW FOR INCREASING
 MARGIN OF OPERATION OF EXTERNAL DEVICE AND METHOD THEREOF

and executed an application for Letters Patent of the United States of America therefor on
 18 March 2002; and

Whereas,

SAMSUNG ELECTRONICS CO., LTD.

416 Maetan-dong, Paldal-gu, Suwon-city,

Kyungki-do, Rep. of Korea

(assignee), desires to acquire the entire right, title, and interest in the application and
 invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named
 assignee, its successors and assigns, the entire right, title and interest in the application and the
 invention disclosed therein for the United States of America and all countries foreign thereto,
 including rights of priority under the International Convention of Paris (1883) as amended, and
 I/we request the Director - U.S. Patent and Trademark Office to issue any Letters Patent granted
 upon the invention set forth in the application to the assignee, its successors and assigns; and
 I/we hereby agree that the assignee may apply for foreign Letters Patent on the invention and
 I/we will execute without further consideration all papers deemed necessary by the assignee in
 connection with the United States and foreign applications when called upon to do so by the
 assignee.

I/We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100
 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses
 (Application number _____ and Confirmation number
 _____, filed _____) the filing date
 and application number of said application when known.

Date: 18 March 2002 
 s/ Tae-ho Lee

Date: _____
 s/

Date: _____
 s/

Date: _____
 s/

Date: _____
 s/

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)