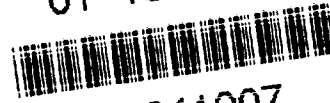


RECORDATION FORM COVER SHEET  
**PATENTS ONLY**

SAMT-000

01-13-1999

COMMERCE  
Mark Office



100941907

RECORDED

To the Honorable Commissioner of Patents and Trademarks: Please record this

1. Name of conveying party(ies):  
Je-Kook Kim  
Young-Wook Jang  
Suk-Jung Lee  
Jeong-Cheol Shin  
Additional name(s) of conveying party(ies) attached?  Yes  No

1999 JAN 12

2. Name and address of party(ies):  
Name: Samsung Electronics, Co., Ltd.  
Internal Address: \_\_\_\_\_

OPR/FINANCE

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other  
Execution Date: December 18, 1998

Street Address: 416, Maetan-dong, Paldal-gu,  
Suwon-city, Kyungki-do, Republic of Korea  
City: \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_  
Additional name(s) & address 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: \_\_\_\_\_  
A. Patent Application No.(s)  
09/189,192 filed November 10, 1998  
Additional numbers attached?  Yes  No

B. Patent No.(s) \_\_\_\_\_

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: Anthony P. Onello, Jr., Esq.  
Internal Address: Lappin & Kusmer LLP  
Street Address: 200 State Street  
City: Boston State MA ZIP 02109

6. Total number of applications and registrations involved ..... 1  
7. Total fee (37 CFR 3.41)..... \$40.00  
 Enclosed  
 Authorized to be charged to deposit account  
8. Deposit Account Number:  
12-0448  
(Attach duplicate copy of this page if paying by deposit account)

01/12/1999 DNGUYEN 00000361 09189192  
01 FC:581 40.00 OP ) DO NOT USE THIS SPACE

9. Statement and signature:  
*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.*  
Anthony P. Onello, Jr. Reg. No. 38,572  
Name of Person Signing \_\_\_\_\_ Signature Anthony P. Onello, Jr. Date January 6, 1999  
Total number of pages 3

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents and Trademarks, Box Assignments  
Washington, D.C. 20231

G:\SAM\060\APPLN\PTO1595.FRM

**PATENT**  
**REEL: 9687 FRAME: 0858**

**A S S I G N M E N T**

We, Je-Kook Kim of 3 Floor, 4/3, 2-338, Dowha 1-dong, Mapo-gu, Seoul, Republic of Korea, Young-Wook Jang of 101-1403, Hyundai Apt., 700, Poongduckcheon-ri, Suji-eub, Yongin-city, Republic of Korea, Suk-Jung Lee of 343, Imac-dong, Bundang-gu, Seongnam-city, Kyungki-do, Republic of Korea, and Jeong-Cheol Shin of 1205-6, Maetan 2-dong, Paldal-gu, Suwon-city, Kyungki-do, Republic of Korea, having invented improvements in TRACKING AND FOCUSING CONTROL APPARATUS IN AN OPTICAL DISK SYSTEM described in an application for Letters Patent of the United States, Serial No. 09/189,192, filed on November 10, 1998 for good and valuable consideration, receipt of which is hereby acknowledged from Samsung Electronics Co., Ltd., a Korean corporation having a place of business at 416, Maetan-dong, Paldal-ku, Suwon-city, Kyungki-do, Republic of Korea (and hereinafter called the Assignee which term shall include its successors and assigns), do hereby sell, assign and transfer unto the Assignee, our entire right, title, and interest, in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto, in and to and under said application (which term shall include hereinafter where the context so admits all divisional, continuing, reissue and other patent applications based thereon) and the inventions (which term shall include each and every such invention, or part thereof) therein described, and any and all patents and like rights of exclusion (including extensions thereof) of any country which may be granted on or for said inventions or on said application;

And for the same consideration We do also hereby sell, assign, and transfer unto the Assignee, all our rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, and all other treaties of like purpose in respect of said inventions and said application, and We do hereby authorize the Assignee to apply in our name or its own name or its designee for patents and like rights of exclusion on or for said inventions in all countries, claiming (if the Assignee so desires) the priority of the filing date of said application under the provisions of said Convention, Treaty or any such other Convention or Treaty;

And for the same consideration, We do hereby agree for ourselves and for our heirs, executors, and administrators, promptly upon request of the Assignee to execute and deliver without further compensation any power of attorney, assignment, original, divisional, continuing, reissue or other application or applications for patent or patents or like rights of exclusion of any country, or other lawful documents and any further assurances that may be deemed necessary or desirable by the Assignee, fully to secure to it said right, title, and interest as aforesaid in and to said inventions, applications, and said several patents and like rights of exclusion (including extensions thereof) or any of them, all, however, at the expense of the Assignee, its successors, or assigns;

And We do hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and the corresponding Official of each country foreign thereto to issue to the Assignee, any and all patents and like rights of exclusion which may be granted in any country upon said United States application on or for said inventions;

And We do hereby covenant for ourselves and our legal representatives and agree with the Assignee, that We have granted no right or license to make, use, or sell said inventions to anyone except the Assignee, that prior to the execution of this deed our right, title, and interest in and to said inventions has not been otherwise encumbered by us, and that We have not executed and will not execute any instruments in conflict herewith.

First or Sole Inventor:

Signature: Je-Kook Kim  
Je-Kook Kim

Date: Dec. 18, 1998

Second Joint Inventor:

Signature: Young-Wook Jang  
Young-Wook Jang

Date: Dec. 18, 1998

Third Joint Inventor:

Signature: Suk-Jung Lee  
Suk-Jung Lee

Date: Dec. 18, 1998

Fourth Joint Inventor:

Signature: Jeong-Cheol Shin  
Jeong-Cheol Shin

Date: Dec. 18, 1998

DOCKET NO. SAMJ-060  
LAPPIN & KUSMER LLP  
Two Hundred State Street  
Boston, Massachusetts 02109  
(617) 330-1300