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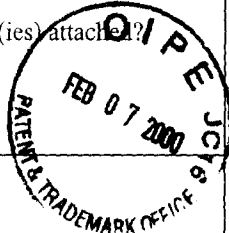


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To the Assistant Commissioner of Patents. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Young-il KIM, Jin-seung CHOI, Jae-yong EUM, Sung-min CHO, Won-hyung LEE, Hwan-young CHOI, Moon-gyu LEE, Jee-hong MIN
Additional name(s) of conveying party(ies) attached?
 yes no

2. Name and address of receiving party(ies)?
SAMSUNG ELECTRONICS CO., LTD.
416, Maetan-dong, Paldal-gu, Suwon-city, Kyungki-do, Republic of Korea



3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Names
 Other

Additional name(s) & address(es) attached?
 yes no

Execution Date: December 13, 1999

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)
09/437,900
Additional numbers attached? Yes No

B. Patent No.(s)

5. Name and address of party to whom correspondence concerning document should be mailed:
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3213

6. Total number of applications and registration 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.
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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.

Darryl Mexic
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February 7, 2000
Date

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02/09/2000 MWRNDL 00000056 09437900
01 FC:581 40.00 DP

PATENT
REEL: 010535 FRAME: 0943

ASSIGNMENT

Whereas, I/We, Sung-min Cho, Won-hyung Lee, Hwan-young Choi, Moon-gyu Lee and Jee-hong Min of 106-906 Dongsung Apt., 817 Banghwa-dong, Kangseo-gu, Seoul, Rep. of Korea; 73-1006 Hyundai Apt., 456 Apgujung-dong, Kangnam-gu, Seoul, Rep. of Korea; 901-105 Mockryeon Apt., 1053-3 Hogue-dong, Dongan-gu, Anyang-city, Kyungki-do, Rep. of Korea; 206-102 Jugong Apt., 1054-3 Youngtong-dong, Paldal-gu, Suwon-city, Kyungki-do, Rep. of Korea and 203-604 Pyucksan Apt., 941 Jukjeon-ri, Sujieup, Yongin-city, Kyungki-do, Rep. of Korea hereinafter called assignor(s), have invented certain improvements in BEAM SCANNING SYSTEM ADOPTING DEFLECTION DISC

and executed an application for Letters Patent of the United States of America therefor on

13 December 1999 ; and

Whereas, SAMSUNG ELECTRONICS CO., LTD. of 416, Maetan-dong, Paldal-gu, Suwon-city, Kyungki-do, Republic 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, including the right to claim priority under 35 U.S.C. & 119, and I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request my attorneys SUGHRUE, MION, ZINN, MACPEAK & SEAS of 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3202 to insert here in parentheses (Application number 09/437,900, filed 9 November 1999) the filing date and application number of said application when known.

Date: 13 December 1999

s/ Sungmin Cho
Sungmin Cho

Date: 13 December 1999

s/ Won Hyung Lee
Won-hyung Lee

Date: 13 December 1999

s/ Hwanyoung Choi
Hwan-young Choi

Date: 13 December 1999

s/ Moon-gyu Lee
Moon-gyu Lee

Date: 13 December 1999

s/ Jee Hong Min
Jee-hong Min

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

ASSIGNMENT

Whereas, I/We, Young-il Kim, Jin-seung Choi and Jae-yong Eum of 304-1503 Pyucksan Apt., 941 Jukjeon-ri, Suji-eup, Yongin-city, Kyungki-do, Rep. of Korea; 305-901 Jugong Apt., 646 Hwaseo 2-dong, Jangan-gu, Suwon-city, Kyungki-do, Rep. of Korea and 506-1203 Jugong Apt., 964-5 Youngtong-dong, Paldal-gu, Suwon-city, Kyungki-do, Rep. of Korea

hereinafter called assignor(s), have invented certain improvements in

BEAM SCANNING SYSTEM ADOPTING DEFLECTION DISC

and executed an application for Letters Patent of the United States of America therefor on

13 December 1999 ; and

Whereas, SAMSUNG ELECTRONICS CO., LTD. of 416, Maetan-dong, Paldal-gu, Suwon-city, Kyungki-do, Republic 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, including the right to claim priority under 35 U.S.C. & 119, and I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request my attorneys SUGHRUE, MION, ZINN, MACPEAK & SEAS of 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3202 to insert here in parentheses (Application number 09/437,900, filed 9 November 1999) the filing date and application number of said application when known.

Date: 13 December 1999

s/ Kim Young-il
Young-il Kim

Date: 13 December 1999

s/ Choi Jin-seung
Jin-seung Choi

Date: 13 December 1999

s/ Eum Jae-yong
Jae-yong Eum

Date: _____

s/ _____

Date: _____

s/ _____

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