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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):

Young-chan CHO  
Youn-cheul KIM

03/31/03

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

Name: Samsung Electronics Co., Ltd.

Address: 416 Maetan-dong, Paldal-gu

U.S. PTO  
10/401580  
03/31/03

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

## 3 Nature of conveyance:

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

City: Suwon-city, Kyungki-do State/Prov.:

Country: Republic of Korea ZIP:

Execution Date: 7 March 2003

Additional name(s) &amp; address(es)

☐ Yes ☒ No

## 4 Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: 7 March 2003

Patent Application No.

Filing date

B. Patent No.(s)

NEW

31 March 2003

04/02/2003 HLE333 00000073 10401580

04 FC:8001

40.00 DP

Additional numbers

☐ Yes ☒ No

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

Name: KENNETH D. SPRINGER

Registration No. 39,843

Address: VOLENTINE FRANCOS, P.L.L.C.

12200 SUNRISE VALLEY DRIVE, SUITE 150

## 6. Total number of applications and patents involved:

1

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

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☐ Authorized to be charged to deposit account

## 8. Deposit account number:

City: RESTON

State/Prov.: VA

50-0238

Country: U.S.A.

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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.

KENNETH D. SPRINGER

Name of Person Signing

Signature

31 MARCH 2003

3

Date

Total number of pages including cover sheet, attachments, and

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments

PATENT  
REEL: 013916 FRAME: 0771

## ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned

**Insert Name(s)  
of Inventor(s)**

1. CHO, Young-chan

2. KIM, Youn-cheul

the undersigned hereby sell(s) and assign(s) to

**Insert Name(s)  
of Assignee(s)**

Samsung Electronics Co., Ltd.

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

(hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as

**Title of  
Invention**

INPUT RECEIVER FOR CONTROLLING OFFSET VOLTAGE USING OUTPUT

FEEDBACK SIGNAL

**Date of  
Signing of  
Application**

for which an application for patent in the United States of America has been executed by the undersigned on March 7, 2003

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuing division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) to Adam C. Volentine, Reg. No. 33,289 and William S. Francos, Reg. No. 38,456, and the firm of VOLENTINE FRANCOS, P.L.L.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

**In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).**

Date Mar 7 2003 , Name of Inventor Young - Chan CHO  
Young-chan CHO  
Date Mar. 7. 2003 , Name of Inventor Youn-cheul KIM  
Youn-cheul KIM  
Date \_\_\_\_\_ , Name of Inventor \_\_\_\_\_  
Date \_\_\_\_\_ , Name of Inventor \_\_\_\_\_  
Date \_\_\_\_\_ , Name of Inventor \_\_\_\_\_  
Date \_\_\_\_\_ , Name of Inventor \_\_\_\_\_

(Note regarding Witnessing and/or Acknowledgment: Acknowledgment before a United States Consul is preferred but not required. If not acknowledged, then it is recommended that the execution by the Inventor(s) be witnessed by at least two witnesses who sign here. However, the current practice of the U.S. Patent and Trademark Office is to record an Assignment even it has not been acknowledged and/or witnessed.)

Witness \_\_\_\_\_

Witness \_\_\_\_\_

**ACKNOWLEDGMENT**

\_\_\_\_\_  
\_\_\_\_\_ }

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Applicant Reference No. SS-16910-US Atty Docket No. SEC.1004