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Attorney Docket No.: 041993-5043

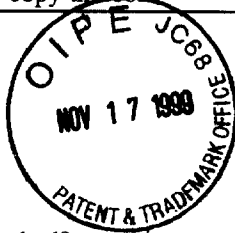
To the Assistant Commissioner for Patents:

Please record the attached original documents or copy thereof

ATTN: BOX ASSIGNMENT

1. Name of conveying party(ies):

Young Bin YOON



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

Name: LG SEMICON CO., LTD.

Internal Address:

Additional name(s) of conveying party(ies) attached?

☐ Yes ☐ No

3. Nature of conveyance:

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

Street Address: 1, Hyangjeong-Dong, Hungduk-Gu  
Cheongju, Choongcheongbuk-Do, Korea

City:

State:

Zip:

Additional name(s) & address(es) attached?

☐ Yes ☒ No

Execution Date: September 29, 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). 08/920,009

B. Patent No.

Additional numbers attached: ☐ Yes ☒ No

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

Name: Mr. Robert J. Gaybrick  
Internal Address: Customer No. 09629  
Morgan, Lewis & Bockius LLP

Street Address: 1800 M Street, N.W.  
City: Washington State: D.C. Zip: 20036

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R §3.41): \$40.00

☒ Enclosed

☐ Authorized to be charged to deposit account 50-0310

8. Deposit account number: 50-0310

Attach duplicate of page if paying by deposit account

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.

J. Michael Thesz

Name of Person Signing

Signature

November 17, 1999

Date

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

ATTORNEY DOCKET NO.: 041993-5110  
 SOLE/JOINT INVENTION  
 (U.S. Rights Only)

# ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

## TIMING RESTORATION CIRCUIT FOR PULSE AMPLITUDE MODULATION (PAM)-TYPE COMMUNICATION SYSTEM

for which I/WE executed an application for United States Letters Patent concurrently herewith; or filed an application for United States Letters Patent on August 29, 1997, (Serial No. 08/920,009); and

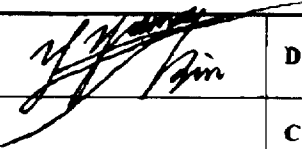
WHEREAS, **LG SEMICON CO., LTD.**, a corporation of **Republic of Korea**, whose post office address is **1 Hyangjeong-Dong, Hungduk-Gu, Cheongju, Choongscheongbuk-Do, Korea** (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issue upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/WE have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. 08/920,009, filed August 29, 1997) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/WE have hereunto set our hand(s).

Full Name of Sole or First Assignor Young Bin YOON	Assignor's Signature 	Date 1999.9.29
Address 5426, Sangdaewon-Dong, Jungwon-Ku, Sungnam, Kyungki-Do, Korea		Citizenship Republic of Korea
Name of additional inventors attached [ ] Yes [X] No		

Morgan, Lewis & Bockius LLP