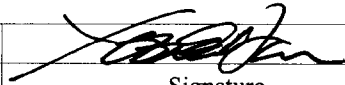
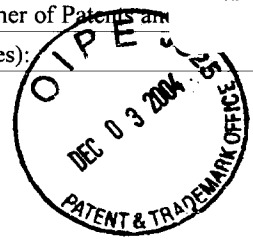


12.3.04

12-09-2004

Docket No.: 312971-P0158		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
FORM PTO-1595 1-31-92		102897829	
To the Honorable Commissioner of Patents and Trademarks Original documents or copy thereof.			
1. Name of conveying party(ies): LEE, JA YOL; LEE, SANG HEUNG; KANG, JIN YEONG; and OH, SEUNG HYEUB		2. Name and address of receiving party(ies): Name: ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE Address: 161 Gajeong-dong, Yuseong-gu, Daejeon- shi, Republic of Korea	
Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other			
Execution Date: 10012004		Additional name(s) and address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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) 10/957,749 (filing date: 10052004)		B. Patent No.(s)	
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed:  Customer No. 47604 or PIPER RUDNICK LLP P.O. Box 9271 Reston, VA 20195		6. Total applications and patents involved: 1	
		7. Total fee (37 CFR 3.41): \$40.00 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account	
		8. Deposit account number: 50-3266 (Attach duplicate copy of this page if paying by deposit account)	
<b>DO NOT USE THIS SPACE</b>			
9. Statement and signature			
<i>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.</i>			
Yoon S. Ham			December 3, 2004
Name of Person Signing		Signature	Date
Registration Number: 45,307			
Total number of pages including this cover sheet: 3			
Do not detach this portion			
Mail documents to be recorded with required cover sheet information to:			
Commissioner of Patents and Trademarks Box Assignments PO BOX 1450 ALEXANDRIA, VA 22313-1450			



12/06/2004 HNGUYEN1 00000006 10957749

04 FC:8021

40.00 0P

PATENT  
REEL: 016044 FRAME: 0816

## **Assignment of Application**

WHEREAS, I (we),

- 1) **Ja Yol LEE of  
401, 126-8 Sinsung-dong, Yuseong-gu, Daejeon-shi  
305-345, Republic of Korea**
- 2) **Sang Heung LEE of  
203-1302 Gukwha life Apt., Samcheong-dong, Seo-gu  
Daejeon-shi 302-222, Republic of Korea**
- 3) **Jin Yeong KANG of  
109-702 Samsung Hanwul Apt., 160-1 Sinsung-dong  
Yuseong-gu, Daejeon-shi 305-707, Republic of Korea**
- 4) **Seung Hyeub OH of  
104-707 Clover Apt., Dunsan 1-dong, Seo-gu  
Daejeon-shi 302-772, Republic of Korea**

, respectively,

have invented certain new and useful improvements in:

### **VOLTAGE-CONTROLLED OSCILLATOR USING CURRENT FEEDBACK NETWORK**

for which an application for Letters Patent was executed on

(Application No. \_\_\_\_\_, Filed October 5, 2004 \_\_\_\_\_); and

### **WHEREAS, ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE**

(hereinafter referred to as "ASSIGNEE"), having a place of business at:

**161 Gajeong-dong, Yuseong-gu, Daejeon-shi, Republic of Korea**



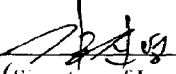
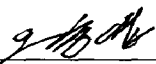
is desirous of acquiring the full and exclusive right in and to said Invention and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, I (we), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right in and to said Invention in the United States and its territorial possessions and in any and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, continuations, substitutions, renewals and reissues thereof.

I (we) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and in any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behalf of said ASSIGNEE and said ASSIGNEE's successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (we) agree that I (we) will communicate to said ASSIGNEE or said ASSIGNEE's representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally, do everything possible to aid said ASSIGNEE, and said ASSIGNEE's successors and assigns, to obtain and enforce proper protection for said Invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Piper Rudnick LLP, Attorneys at Law, 1200 Nineteenth Street, N.W., Washington, D.C. 20036-2412, the power to insert on this Assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: <u>October 1, 2004</u>	<u>Ja Yol LEE</u>	 (Signature of Inventor)
Date: <u>October 1, 2004</u>	<u>Sang Heung LEE</u>	 (Signature of Inventor)
Date: <u>October 1, 2004</u>	<u>Jin Yeong KANG</u>	 (Signature of Inventor)
Date: <u>October 1, 2004</u>	<u>Seung Hyeub OH</u>	 (Signature of Inventor)
Date: _____	_____	_____ (Signature of Inventor)
Date: _____	_____	_____ (Signature of Inventor)
Date: _____	_____	_____ (Signature of Inventor)

PIPERRUDNICK LLP  
1200 NINETEENTH STREET, N.W.  
WASHINGTON, D.C. 20036-2412