

Form PTO-1595
1-31-92

U.S. DEPARTMENT
Patent and T
RE

12-08-2004

12-6-04



102897345

To the Honorable Commissioner of Patents and Trademarks: 102897345

1. Name of conveying party(ies)

Han-il LEE, In-chul HWANG

Additional name(s) of conveying party(ies) attached? Yes No

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

Name: SAMSUNG ELECTRONICS CO., LTD.

Internal Address: 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea

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

Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: November 30, 2004

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)

10/942,119

B. Patent No. (s)

Additional numbers attached? Yes No

DEC - 6 AM 7:38
OPR/FINANCE

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

Name: Frank Chau, Esq.

Street Address: F. CHAU & ASSOCIATES, LLC

130 Woodbury Road

City: Woodbury State: NY Zip: 11797

12/07/2004 GTOM11 00000046 10942119

01 FC:8021

40.00 OP

6. Total number of applications and patents involved: 1

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

Enclosed - Credit Card Payment Form PTO-2038

Authorized to be charged to deposit account

8. Deposit account number:

(Attach duplicate copy of this page if paying by deposit account)

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.

Richard D. Ratchford, Jr.

Registration No. 53,865

Name of Person Signing

Signature

Date

Richard D. Ratchford, Jr.

12/3/04

Total number of pages including cover sheet, attachments and documents: 3

Do not detach this portion

Mail documents to be recorded with required cover sheet information to:
Mail Stop Assignment Recordation Services
Director of the US Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project (0651-0011), Washington, D.C. 20503.

ASSIGNMENTDOCKET NO. 8021-253 (SS-20085-US)

AS A BELOW NAMED INVENTOR, I, and each of us, individually hereby declare that: IN CONSIDERATION of the sum of TEN (\$10.00) dollars or the equivalent thereof, and other good and valuable consideration, the receipt of which from the hereinafter named Assignee is hereby acknowledged, I do hereby sell, assign and forever grant and convey unto:

ASSIGNEE: Samsung Electronics Co., Ltd.

ADDRESS: 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do,
Republic of Korea

Who is my Assignee, and to the successes and assigns of my Assignee, all my right, title and interest, in and for the United States of America and all other countries, including all rights of priority, in and to the invention entitled:

TITLE: A FREQUENCY SYNTHESIZER USING A WIDE-BAND VOLTAGE CONTROLLED OSCILLATOR AND A FAST ADAPTIVE FREQUENCY CALIBRATION METHOD

invented by me (if only one inventor is named below) or us (if more than one inventor is named below) and described in an application for a United States patent the specification of which is either attached hereto or otherwise accompanies this Assignment or indicates an attorney docket no. 8021-253 (SS-20085-US), or is more particularly identified as:

- executed on even date herewith, or
 Serial No. 10/942,119 filed in the U.S. Patent & Trademark Office on September 15, 2004,
or
 executed on _____

and in and to all United States patents which may be granted thereon and therefore, and in and to all certificates of corrections, divisions, continuations, continuations-in-part, reissued and re-examined patents, and to any extensions thereof, said interest being the entire ownership of the patent when granted, to be held and enjoyed by said SAMSUNG ELECTRONICS CO., LTD., my Assignee, its successors, assigns or other legal representatives, to the full end of the term, terms, or any extension or renewal thereof, for which said patent or patents may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment, sale and conveyance had not been made;

AND I hereby covenant and agree to sign and execute any further documents or instruments which may from time-to-time be either necessary, lawful, proper or requested by the Assignee, in the prosecution of the above-named application or in the preparation and prosecution of any certificate of correction, division, continuation, continuation-in-part, reissue, re-examination, in any amendment, extension, or interference proceeding, whether administrative or judicial, or otherwise, to secure the title hereto in said Assignee;

AND I do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Patent or Patents to the Assignee, and I hereby appoint as my, or our attorney, and authorize and request Frank Chau, Reg. No. 34,136, to insert on this Assignment any further identification or to complete such identification which may be either necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, I and we have set our hands and seals on the dates written beside
my and our respective names:

<u>INVENTOR(S)</u>	<u>Date Signed</u>	<u>Witness(es)</u>
1) <u>Han-il Lee</u> (Seal) Han-il LEE	11/30/04	
2) <u>In-chul Hwang</u> (Seal) In-chul HWANG	11/30/04	