

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Wangmyong Woo	11/19/2009
Chang-Ho Lee	11/19/2009
Jaejoon Chang	11/19/2009
Haksun Kim	11/19/2009
Minsik Ahn	11/19/2009
Joy Laskar	11/19/2009

RECEIVING PARTY DATA

Name:	Samsung Electro-Mechanics Company, Ltd.
Street Address:	314, Maetan 3-Dong, Yeongtong-Gu
City:	Gyeonggi-Do
State/Country:	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF

Name:	Georgia Tech Research Corporation
Street Address:	505 10th Street, NW
City:	Atlanta
State/Country:	GEORGIA
Postal Code:	30332-0412

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11754103

CORRESPONDENCE DATA

Fax Number: (404)853-8806
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 4048538685
 Email: maple.tran@sutherland.com
 Correspondent Name: SUTHERLAND ASBILL & BRENNAN LLP

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PATENT
REEL: 023572 FRAME: 0147

Address Line 1: 999 Peachtree Street, NE
Address Line 4: Atlanta, GEORGIA 30309-3996

ATTORNEY DOCKET NUMBER: 24734-0022

NAME OF SUBMITTER: Jason V. Chang

Total Attachments: 10

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ASSIGNMENT

WHEREAS, we, **WANGMYONG WOO**, a citizen of KOREA, residing at 1059 Windermere Crossing, Cumming, GA 30041, USA; **CHANG-HO LEE**, a citizen of KOREA, residing at 1944 Bennetts Point Drive, Marietta, GA 30068, USA; **JAEJOON CHANG**, a citizen of Korea, residing at 110 Jilstone Court, Duluth, GA 30097, USA; and **HAKSUN KIM**, a citizen of the KOREA, residing at 1682 Seocho-Dong, Seocho-Gu, Seocho Raemian Apt. 102-1901, Seoul, KOREA, invented certain inventions and improvements disclosed in a nonprovisional patent application entitled "**SYSTEMS, METHODS, AND APPARATUSES FOR COMPLEMENTARY METAL OXIDE SEMICONDUCTOR (CMOS) ANTENNA SWITCHES USING SWITCHED RESONATORS**," filed in the United States Patent and Trademark Office on May 25, 2007, under Application No. 11/754,103 and Docket No. 24734-0022; and

WHEREAS, **Samsung Electro-Mechanics Company, Ltd.**, a corporation in the country of KOREA, having a principal place of business at 314, Maetan 3-Dong, Yeongtong-Gu, Suwon, Gyunggi-Do, is desirous of acquiring an interest in the same;

NOW, THEREFORE, for and in consideration of Five Dollars (\$5.00) and other good and valuable consideration, the receipt and sufficiency of which we, **WANGMYONG WOO, CHANG-HO LEE, JAEJOON CHANG**, and **HAKSUN KIM**, by these presents do sell, assign and transfer unto **Samsung Electro-Mechanics Company, Ltd.** the full, exclusive and entire right, title, and interest in and to said application, and in and to all inventions and improvements disclosed and described in said application;

For the same consideration, we, by these presents do sell, assign, and transfer to **Samsung Electro-Mechanics Company, Ltd.**, the full, exclusive, and entire right, title and interest in and to any foreign application or applications corresponding to said application, in whole or in part, in countries other than the United States, in and to any Letters Patent and similar protective rights granted on said foreign applications, and in and to the right to claim any applicable priority rights arising from or required for said foreign applications under the terms of any applicable conventions, treaties, statutes, or regulations; said foreign applications to be filed

and issued in the name of **Samsung Electro-Mechanics Company, Ltd.**, or its designee insofar as permitted by applicable law.

AND, for the same consideration, we agree to sign all lawful papers, execute all nonprovisional applications and other applications, make all assignments and rightful oaths, and generally do everything possible to aid **Samsung Electro-Mechanics Company, Ltd.**, its successors, assigns, and nominees, to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

INVENTOR 1

Wangmyong Woo
Wangmyong Woo

Date: 11/19/2009

WITNESS: Serp Mo

Date: 11/19/2009

WITNESS: Woonjun Kim

Date: 11/19/2009

OR

USE SECTION BELOW ONLY IF SIGNING IN PRESENCE OF A NOTARY

Date: _____

Wangmyong Woo

STATE OF _____)

ss.

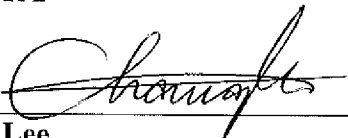
COUNTY OF _____)

Before me, a Notary Public in and for the State of _____, on this _____ day of _____, 2009, personally appeared Wangmyong Woo, who being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.


(SEAL)

(Notary Public)


INVENTOR 2


Chang-Ho Lee

Date: 11/19/09

WITNESS: 

Date: 11/19/2009

WITNESS: 

Date: 11/19/2009

OR

USE SECTION BELOW ONLY IF SIGNING IN PRESENCE OF A NOTARY

Chang-Ho Lee

Date: _____

STATE OF _____)

ss.

COUNTY OF _____)

Before me, a Notary Public in and for the State of _____, on this _____ day of _____, 2009, personally appeared **Chang-Ho Lee**, who being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

(SEAL)

(Notary Public)

INVENTOR 3

Jaejoon Chang

Jaejoon Chang

Date: 11/19/2009

WITNESS: [Signature]

Date: 11/19/2009

WITNESS: [Signature]

Date: 11/19/2009

OR

USE SECTION BELOW ONLY IF SIGNING IN PRESENCE OF A NOTARY

Date: _____

Jaejoon Chang

STATE OF _____)

ss.

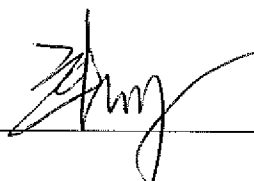
COUNTY OF _____)

Before me, a Notary Public in and for the State of _____, on this _____ day of _____, 2009, personally appeared **Jaejoon Chang**, who being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

(SEAL)

(Notary Public)

INVENTOR 4



Haksun Kim

Date: 11/19/2009

WITNESS: 

Date: 11/19/2009

WITNESS: 

Date: 11/19/2009

OR

USE SECTION BELOW ONLY IF SIGNING IN PRESENCE OF A NOTARY

Haksun Kim

Date: _____

STATE OF _____)

ss.

COUNTY OF _____)

Before me, a Notary Public in and for the State of _____, on this _____ day of _____, 2009, personally appeared **Haksun Kim**, who being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

(SEAL)

(Notary Public)

ASSIGNMENT

WHEREAS, we, **MINSIK AHN**, a citizen of SOUTH KOREA, residing at 70 Perimeter Center East, #2422, Atlanta, GA 30346, USA; and **JOY LASKAR**, a citizen of THE UNITED STATES OF AMERICA, residing at 860 Saints Drive, Marietta, GA 30068, USA, invented certain inventions and improvements disclosed in a nonprovisional patent application entitled **"SYSTEMS, METHODS, AND APPARATUSES FOR COMPLEMENTARY METAL OXIDE SEMICONDUCTOR (CMOS) ANTENNA SWITCHES USING SWITCHED RESONATORS,"** filed in the United States Patent and Trademark Office on May 25, 2007, under Application No. 11/754,103 and Docket No. 24734-0022; and

WHEREAS, **GEORGIA TECH RESEARCH CORPORATION**, a corporation of the State of Delaware, having a principal place of business at 505 10th Street, NW, Atlanta, GA 30332-0415, is desirous of acquiring an interest in the same;

NOW, THEREFORE, for and in consideration of Five Dollars (\$5.00) and other good and valuable consideration, the receipt and sufficiency of which we hereby acknowledge, we, **MINSIK AHN** and **JOY LASKAR**, by these presents do sell, assign and transfer unto **GEORGIA TECH RESEARCH CORPORATION**, the full, exclusive and entire right, title, and interest in and to said applications, in and to any divisions, continuations, continuations in parts, and reissues thereof, and in and to all inventions and improvements disclosed and described in said applications, preparatory to obtaining Letters Patent of the United States therefor; and we hereby request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States resulting from said applications, or from a division, continuation, continuation in part, or reissue thereof, to **GEORGIA TECH RESEARCH CORPORATION**, as the assignee, for its interest and for the sole use and benefit of **GEORGIA TECH RESEARCH CORPORATION**, and its assigns and legal representatives;

For the same consideration, we, by these presents do sell, assign, and transfer to **GEORGIA TECH RESEARCH CORPORATION**, the full, exclusive, and entire right, title and interest in and to any foreign application or applications corresponding to any of said applications, in whole or in part, in countries other than the United States, in and to any Letters

Patent and similar protective rights granted on said foreign applications, and in and to the right to claim any applicable priority rights arising from or required for said foreign applications under the terms of any applicable conventions, treaties, statutes, or regulations; said foreign applications to be filed and issued in the name of **GEORGIA TECH RESEARCH CORPORATION**, or its designee insofar as permitted by applicable law.

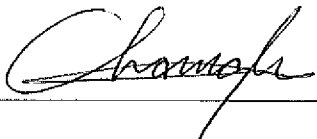
AND, for the same consideration, we agree to sign all lawful papers, execute all division, continuing, continuation in part, reissue and other applications, make all assignments and rightful oaths, and generally do everything possible to aid **GEORGIA TECH RESEARCH CORPORATION**, its successors, assigns, and nominees, to obtain and enforce proper protection, including the right to sue for patent infringement, for all said inventions and improvements in all countries throughout the world.

INVENTOR 1

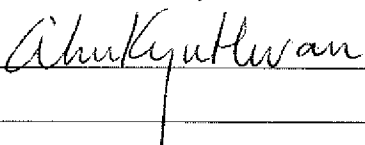


Minsik Ahn

Date: 11/19/09

WITNESS: 

Date: 11/19/09

WITNESS: 

Date: 11/19/09

OR

USE SECTION BELOW ONLY IF SIGNING IN PRESENCE OF A NOTARY

Minsik Ahn

Date: _____

STATE OF _____)

ss.

COUNTY OF _____)

Before me, a Notary Public in and for the State of _____, on this _____ day of _____, 20____, personally appeared **Minsik Ahn**, who being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

(SEAL)

(Notary Public)

INVENTOR 2

Joy Laskar

Date:

11/19/09

WITNESS:

Date:

11/19/09

WITNESS:

Date:

11/19/09

OR

USE SECTION BELOW ONLY IF SIGNING IN PRESENCE OF A NOTARY

Date:

Joy Laskar

STATE OF _____)

ss.

COUNTY OF _____)

Before me, a Notary Public in and for the State of _____, on this _____ day of _____, 20____, personally appeared Joy Laskar, who being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

(SEAL)

(Notary Public)