# PATENT ASSIGNMENT

## Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Jae Woo KO	08/29/2011
Jeong Hae LEE	06/23/2011
Joon Hyun BAEK	08/25/2011
Jae Hyun PARK	06/23/2011

#### **RECEIVING PARTY DATA**

Name:	SAMSUNG ELECTRONICS CO., LTD.
Street Address:	416, Maetan-dong, Yeongtong-gu
City:	Suwon-si, Gyeonggi-do
State/Country:	REPUBLIC OF KOREA

Name:	HONGIK UNIVERSITY INDUSTRY-ACADEMIA COOPERATION FOUNDATION
Street Address:	72-1, Sangsu-dong, Mapo-gu
City:	Seoul
State/Country:	REPUBLIC OF KOREA

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13142937

## **CORRESPONDENCE DATA**

Fax Number: (202)403-3587

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 202-293-0804

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Correspondent Name: Jefferson IP Law, LLP
Address Line 1: 1130 Connecticut Ave., NW

Address Line 2: Suite 420

Address Line 4: Washington, DISTRICT OF COLUMBIA 20036

**PATENT** 

REEL: 026828 FRAME: 0246

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ATTORNEY DOCKET NUMBER:	0203-0493
NAME OF SUBMITTER:	Raymond B. Persino
Total Attachments: 6 source=0203-0493AssignmentAsFiled#pag source=0203-0493AssignmentAsFiled#pag source=0203-0493AssignmentAsFiled#pag source=0203-0493AssignmentAsFiled#pag source=0203-0493AssignmentAsFiled#pag source=0203-0493AssignmentAsFiled#pag	e2.tif e3.tif e4.tif e5.tif

Form **PTO-1595** (Rev. 07/05) OMB No. 0651-0027 (exp. 6/30/2008)

## RECORDATION FORM COVER SHEET PATENTS ONLY To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below. 1. Name of conveying party(ies) 2. Name and address of receiving party(ies) 1) Jae Woo KO, 2) Jeong Hae LEE, 3) Joon Hyun BAEK, and Name: Samsung Electronics Co., Ltd. 4) Jae Hyun PARK Internal Address: Additional name(s) of conveying party(ies) attached? 🔲 Yes 🗹 No 3. Nature of conveyance/Execution Date(s): Street Address: 416, Maetan-dong, Yeongtong-gu Execution Date(s) Aug.29, 2011, Aug.25, 2011, Jun.23, 2011 Merger ✓ Assignment City: Suwon-si, Gyeonggi-do Security Agreement Change of Name Government Interest Assignment Country: Republic of Korea Zip: Executive Order 9424, Confirmatory License Other Additional name(s) & address(es) attached? Yes No 4. Application or patent number(s): This document is being filed together with a new application. A. Patent Application No.(s) B. Patent No.(s) 13/142,937 Additional numbers attached? Yes V No 5. Name and address to whom correspondence 6. Total number of applications and patents concerning document should be mailed: involved: One Name: Jefferson IP Law, LLP **7. Total fee** (37 CFR 1.21(h) & 3.41) \$ Internal Address: Raymond B. PERSINO Authorized to be charged by credit card Authorized to be charged to deposit account **Enclosed** Street Address: 1130 Connecticut Ave., NW, Suite 420 None required (government interest not affecting title) 8. Payment Information City: Washington a. Credit Card Last 4 Numbers \_\_\_\_\_ State: DC Zip:20036 Expiration Date \_\_\_\_\_ Phone Number: 202-293-0804 b. Deposit Account Number Fax Number: 202-403-3587 Authorized User Name \_\_\_\_\_ Email Address: usdocketing@jeffersonip.com 9. Signature: /Raymond B. PERSINO/ Reg. #58,082 August 30, 2011 Signature Date Total number of pages including cover sheet, attachments, and documents: Name of Person Signing Raymond B. Persino

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

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Additional name and address of receiving parties:

Name: HONGIK UNIVERSITY INDUSTRY-ACADEMIA COOPERATION FOUNDATION

Address: 72-1, Sangsu-dong, Mapo-gu, Seoul, Republic of Korea

Client Docket No.: YPF200911-0044/US DMC

## <u>Assignment</u>

WHEREAS, the following inventors, namely 1) Jae Woo KO, 2) Jeong Hae LEE, 3) Joon Hyun BAEK, and 4) Jae Hyun PARK, all citizens of the Republic of Korea and residing respectfully at 1) No. 201-1206, Pureun Maeul Daewoo Apt., Indukwon, Poil-dong, Uiwang-si, Gyeonggi-do, Republic of Korea, 2) No. 513-405, Mokdong Apt., Mok 5-dong, Yangcheon-gu, Seoul, Republic of Korea, 3) No. 102-1105, Woosung Apt., Noryangjin 1-dong, Dongjak-gu, Seoul, Republic of Korea, and 4) 3-36, Yulpo-ri, Godeok-myeon, Pyeongtaek-si, Gyeonggi-do, Republic of Korea (hereinafter called "Assignors"), having made or discovered certain new, useful and non-obvious improvements in an invention having a working title of:

#### INFINITE WAVELENGTH ANTENNA DEVICE,

WHEREAS, Samsung Electronics Co., Ltd., a corporation duly organized under the laws of the Republic of Korea, located and doing business at 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea and Hongik University Industry-Academia Cooperation Foundation, a corporation duly organized under the laws of the Republic of Korea, located and doing business at 72-1, Sangsu-dong, Mapo-gu, Seoul, Republic of Korea (hereinafter called "Assignees"), are desirous of acquiring the entire right, title and interest therein;

NOW, THEREFORE, BE IT KNOWN that for and in good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors do hereby sell, assign and transfer unto said Assignee the entire and exclusive worldwide right, title and interest in and to all said inventions and discoveries disclosed in said application, and in and to said application, any and all substitutions, divisions, provisionals, conversions of provisionals and continuations thereof, and in and to all Letters Patent, United States and foreign, that may be granted for said inventions and discoveries, and in and to all extensions, renewals and reissues thereof; and the right to file any foreign application and/or claim priority under the provisions of any international treaty or convention arising from this application or any divisional, continuing, substitute or reissue application therefrom. The aforesaid assignment includes the right in and to all income, royalties, damages and payments, now or hereafter due or payable with respect to any Letters Patent which may be granted, and in and to all causes of action (either in law or in equity), and the right to sue, counterclaim, and recover for past, present and future infringement of the rights assigned or to be assigned under this Assignment, as fully and entirely as the same would have been held and enjoyed by Assignors if this sale, assignment and transfer had not been made.

Assignors covenant and agree, without further compensation to said Assignors but at Assignee's expense:

- a. to execute:
  - i. all papers to be used in connection with this application and any divisional, continuing, substitute or reissue application thereof, as the Assignee may deem necessary or expedient, and
  - ii. all papers in connection with any interference, litigation, mediation, arbitration or other proceeding relating to this application or any divisional, continuing, substitute or reissue application thereof, as may be necessary or expedient;
- b. to cooperate with the Assignee in every way possible in obtaining evidence and going forward in any interference, litigation, mediation, arbitration or other proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof;

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- c. to communicate to the Assignee any facts relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof, including evidence for any interference, litigation, mediation, arbitration or other proceeding relating to said invention, whenever requested;
- d. to testify in any interference, litigation, mediation, arbitration or other proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof whenever requested; and
- e. to perform all other affirmative acts which may be necessary or desirable to secure full and complete protection of the inventions and discoveries or that may be necessary or desirable to vest in Assignee the complete title to the inventions and discoveries and Letters Patent hereby conveyed and to enable Assignee to record title.

Assignors hereby authorize and request the United States Patent and Trademark Office or any other issuing authority to issue any and all Letters Patent that may be granted upon this invention and/or this application or any divisional, continuing, substitute or reissue application thereof to the Assignee, its legal representatives, successors and assigns.

Assignors each hereby represent, covenant and warrant that he or she has the full right to convey the entire right, title and interest by this instrument, free of any encumbrances and that no other agreement has been or will be executed in conflict herewith.

The provisions of this Assignment are binding upon each Assignor's heirs, legal representatives and/or administrators and assigns.

Assignors hereby grant to the law firm of Jefferson IP Law, LLP of Washington, DC and its attorneys and agents as associated with Customer No. 68103 the authority and power to insert on this instrument any further identification which may be necessary or desirable for purposes of recordation in the United States Patent and Trademark Office or a Patent Office of any foreign country.

Signature of First Inventor:	Jae woo Ko	Aug 29. 2011
•	Jae Woo KO	Date
Signature of Second Inventor:		
	Jeong Hae LEE	Date
Signature of Third Inventor:	postooth	Aug 25, 2011
	Joon Hyun BAEK	Date
Signature of Fourth Inventor:		
	Jae Hyun PARK	Date

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## Assignment

WHEREAS, the following inventors, namely 1) Jae Woo KO, 2) Jeong Hae LEE, 3) Joon Hyun BAEK, and 4) Jae Hyun PARK, all citizens of the Republic of Korea and residing respectfully at 1) No. 201-1206, Pureun Maeul Daewoo Apt., Indukwon, Poil-dong, Uiwang-si, Gyeonggi-do, Republic of Korea, 2) No. 513-405, Mokdong Apt., Mok 5-dong, Yangcheon-gu, Seoul, Republic of Korea, 3) No. 102-1105, Woosung Apt., Noryangjin 1-dong, Dongjak-gu, Seoul, Republic of Korea, and 4) 3-36, Yulpo-ri, Godeok-myeon, Pyeongtaek-si, Gyeonggi-do, Republic of Korea (hereinafter called "Assignors"), having made or discovered certain new, useful and non-obvious improvements in an invention having a working title of:

#### INFINITE WAVELENGTH ANTENNA DEVICE,

for which a United States Patent Application is being filed concurrently herewith or, if not being concurrently filed, was filed on \_\_\_\_\_\_\_\_\_, and assigned Serial No.\_\_\_\_\_\_\_\_\_, and,

WHEREAS, Samsung Electronics Co., Ltd., a corporation duly organized under the laws of the Republic of Korea, located and doing business at 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea and Hongik University Industry-Academia Cooperation Foundation, a corporation duly organized under the laws of the Republic of Korea, located and doing business at 72-1, Sangsu-dong, Mapo-gu, Seoul, Republic of Korea (hereinafter called "Assignees"), are desirous of acquiring the entire right, title and interest therein;

NOW, THEREFORE, BE IT KNOWN that for and in good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors do hereby sell, assign and transfer unto said Assignee the entire and exclusive worldwide right, title and interest in and to all said inventions and discoveries disclosed in said application, and in and to said application, any and all substitutions, divisions, provisionals, conversions of provisionals and continuations thereof, and in and to all Letters Patent, United States and foreign, that may be granted for said inventions and discoveries, and in and to all extensions, renewals and reissues thereof; and the right to file any foreign application and/or claim priority under the provisions of any international treaty or convention arising from this application or any divisional, continuing, substitute or reissue application therefrom. The aforesaid assignment includes the right in and to all income, royalties, damages and payments, now or hereafter due or payable with respect to any Letters Patent which may be granted, and in and to all causes of action (either in law or in equity), and the right to sue, counterclaim, and recover for past, present and future infringement of the rights assigned or to be assigned under this Assignment, as fully and entirely as the same would have been held and enjoyed by Assignors if this sale, assignment and transfer had not been made.

Assignors covenant and agree, without further compensation to said Assignors but at Assignee's expense:

- to execute:
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  - ii. all papers in connection with any interference, litigation, mediation, arbitration or other proceeding relating to this application or any divisional, continuing, substitute or reissue application thereof, as may be necessary or expedient:
- b. to cooperate with the Assignee in every way possible in obtaining evidence and going forward in any interference, litigation, mediation, arbitration or other proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof:

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- to communicate to the Assignee any facts relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof, including evidence for any interference, litigation, mediation, arbitration or other proceeding relating to said invention, whenever requested;
- d. to testify in any interference, litigation, mediation, arbitration or other proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof whenever requested; and
- e. to perform all other affirmative acts which may be necessary or desirable to secure full and complete protection of the inventions and discoveries or that may be necessary or desirable to vest in Assignee the complete title to the inventions and discoveries and Letters Patent hereby conveyed and to enable Assignee to record title.

Assignors hereby authorize and request the United States Patent and Trademark Office or any other issuing authority to issue any and all Letters Patent that may be granted upon this invention and/or this application or any divisional, continuing, substitute or reissue application thereof to the Assignee, its legal representatives, successors and assigns.

Assignors each hereby represent, covenant and warrant that he or she has the full right to convey the entire right, title and interest by this instrument, free of any encumbrances and that no other agreement has been or will be executed in conflict herewith.

The provisions of this Assignment are binding upon each Assignor's heirs, legal representatives and/or administrators and assigns.

Assignors hereby grant to the law firm of Jefferson IP Law, LLP of Washington, DC and its attorneys and agents as associated with Customer No. 68103 the authority and power to insert on this instrument any further identification which may be necessary or desirable for purposes of recordation in the United States Patent and Trademark Office or a Patent Office of any foreign country.

Signature of First Inventor:	로봇한다. 그리는 사람이 소개의 기가 가장하는 것이 되었다.	
	Jae Woo KO	Date
Signature of Second Inventor:	Into	2011.6.23
	Jeong Hae LEE	Date
Signature of Third Inventor:		
	Joon Hyun BAEK	Date
Signature of Fourth Inventor:	Dary	2011.6.23
	Jae Hyun PARK	Date

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