

Atty Docket No.: 248345US6/hse

FORM PTO-1595
06-04

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Won Il KWAK, Seong Ook PARK and Young Hyuk KO

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

NAME: INFORMATION AND COMMUNICATIONS
UNIVERSITY EDUCATIONAL
FOUNDATION

Address: 517-10 Dogok-Dong, Gangnam-Gu, Seoul
135-270, Republic of Korea

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

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
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015002/0795

Execution Date: January 27, 2004

10-15-2004



102859717

Additional name(s) and address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

☐ This document is being filed together with a new application

A. Patent Application No.(s)

10/780,641

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Customer Number

22850

Tel. (703) 413-3000
Fax. (703) 413-2220

6. Total applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

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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.

Gregory J. Maier

Name of Person Signing

Joseph A. Scafetta Jr.
Signature

Joseph A. Scafetta, Jr.
Registration No. 26,803

Oct. 12, 2004
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Registration Number: 25,599

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10/12/2004 EXHIBIT 0000045 10780641

01 FC:8021

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PATENT
REEL: 015879 FRAME: 0621

Assignment of Application

INSERT NAMES
AND RESIDENCE
ADDRESS OF
THE INVENTORS:

WHEREAS, I (WE) Won Il KWAK, Seong Ook PARK, and Young Hyuk KO located at Room 205 Nokwonjuteak,
298-3 Jeonmin-Dong, Yuseong-Gu, Daejeon 305-810, Republic of Korea, microwave & antenna
Lab, Information and Communications University, 58-4 Hwaam-Dong, Yuseong-Gu, Daejeon
305-732, Republic of Korea, and 101-1911 Woomi APT., Hwajeong 4 Dong, Seo-Gu, Gwangju
502-244, Republic of Korea

INSERT TITLE OF
INVENTION:

_____, respectively,
 have invented certain new and useful improvements in: Internal Multi-Band Antenna With Multiple Layers

INSERT DATE
INVENTORS SIGNED
DECLARATION:

For which an application for Letters Patent was executed on _____
 (Application No. _____, filed _____), and

INSERT NAME
AND ADDRESS OF
COMPANY OR
OTHER ASSIGNEE

WHEREAS, INFORMATION AND COMMUNICATIONS UNIVERSITY EDUCATIONAL FOUNDATION
 (hereinafter referred to as "ASSIGNEE") having a place of business at: 517-10 Dogok-Dong, Gangnam-Gu, Seoul,
135-270, Republic of Korea is desirous of acquiring the entire right, title and interest in and to said invention and in
 and to any Letters Patent that may be granted therefore 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 whereof 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 to the said invention in the United States and its territorial
 possessions and in 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, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions
 and 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 behoof of said ASSIGNEE,
 its (his) 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.

10/01

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) 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 Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) 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 Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of 1940 Duke Street, Alexandria, Virginia 22314 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: January 27, 2004

(Signature of Inventor)

Won Il KWAK

Date: Jan. 28, 2004

(Signature of Inventor)

Seong Ouk PARK

Date: Jan. 27, 2004

(Signature of Inventor)

Young Hyuk KO

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

Atty Docket No.: 248345US-6

FORM PTO-1595
1-31-92

02-26-2004



102678807

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1. Name of conveying party(ies):

Won Il KWAK
Seong Ook PARK
Young Hyuk KO

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

Name: Information and Communications University
Educational Foundation
Address: 517-10 Dogok-Don, Gangnam-Gu, Seoul, 135-270, Republic of Korea

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4. Application number(s) or patent number(s):

10780641

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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.

Bradley D. Lytle
Name of Person Signing

Signature

Date

Registration Number: 40,073

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RECORDED: 10/12/2004

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REEL: 015879 FRAME: 0624