

06-10-2002

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FORM PTO-1595
P22145.P02



HEET

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

To the Honorable Comr

102113670

IC13 Rec'd PCT/PTO 25 MAR 2002
ne attached original documents or copy thereof.

1. Name of Conveying party(ies):
Dan-Keun SUNG
Su Won PARK

3.25.02

2. Name and address of receiving party(ies)

Name: KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY

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

Internal Address: _____

3. Nature of conveyance:

X Assignment ___ Merger
___ Security Agreement ___ Change of Name
___ Other _____

Street Address: 373-1 Kusong-dong, Yusong-Gu,

Taejon, 305-701, REPUBLIC OF KOREA

City: _____ State: _____ ZIP _____

Execution Date: March 20, & 18, 2002

Additional name(s) and address(es) attached? X Yes 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: March 16, & 18, 2002

A. Patent Application No.(s)

B. Patent No.(s)

10089051

Additional numbers attached: ___ Yes X No

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

Name: Bruce H. Bernstein

Internal Address: P22145

04/02/2002 LLANDGRA 00000035 10089051

04 FC:581 40.00 DP

Street Address: GREENBLUM & BERNSTEIN, P.L.C.

1941 Roland Clarke Place

City: Reston State: VA ZIP: 20191

6. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41).....\$ 40.00

X Enclosed

___ Authorized to be charged to deposit account

8. Deposit account number:

19-0089

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

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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.

Bruce H. Bernstein, Reg. No. 29,027
Name of Person Signing

[Signature]
Signature

3/25/02
Date

Total number of pages including cover sheet, attachments and document: 5

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

PATENT
REEL: 012781 FRAME: 0635

P22145

LISTING OF ADDITIONAL RECEIVING PARTIES

Name: ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE

Street address: 161 Gajong-dong, Yuseong-gu, Daejeon, 305-350, REPUBLIC OF KOREA

ASSIGNMENT

WHEREAS, **SUNG, Dan Keun ; PARK, Su Won** a citizen of **Korea**, whose post office address(es) appear(s) below, hereinafter referred to as the ASSIGNOR, has invented a certain improvement relating to

**Multi-Dimensional Orthogonal Resource Hopping Multiplexing
Communications Method and Apparatus**

for which he has executed, on the same date as this assignment, an application for Letters Patent for the United States to be filed in the United States Patent and Trademark Office.

If this Assignment is filed after the filing date of the above-identified application, the undersigned hereby authorize and request any one of the attorneys of record in this application including Neil F. Greenblum, Reg. No. 28,394, Bruce H. Bernstein, Reg. No. 29,027, Arnold Turk, Reg. No. 33,094, James L. Roland, Reg. No. 32,674, Stephen M. Roylance, Reg. No. 31,296, Leslie J. Paperner, Reg. No. 33,329, William Pieprz, Reg. No. 33,630, and William E. Lyddane, Reg. No. 41,568, of the firm Greenblum & Bernstein, P.L.C., whose address is 1941 Roland Clarke Place, Reston, Virginia 20191, to insert here in parenthesis (Application No. _____, filed _____) the filing date and application number of said application when known.

AND WHEREAS, **Korea Advanced Institute of Science and Technology**, a corporation organized and existing under the laws of the State of **Korea**, whose post-office address is #373-1 **Kusong-dong, Yusong-Gu, Taejon, 305-701, Republic of Korea ; Electronics and Telecommunications Research Institute**, a corporation organized and existing under the laws of the State of **Korea**, whose post-office address is #161 **Gajong-dong, Yuseong-gu, Daejeon 305-350, Republic of Korea**, hereinafter known as the ASSIGNEE, is desirous of acquiring the entire right, title and interest for the United States in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, and prolongations thereof.

NOW, THIS WITNESSETH that for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt whereof is hereby acknowledged, said ASSIGNOR hereby assigns, sells and transfers to said ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application, for the United States including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefore, said ASSIGNEE and its assigns and legal representatives to have, hold, exercise and enjoy the said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges, and advantages in any ways arising from or pertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, and

prolongations thereof, for the use and benefit of said ASSIGNEE and its assigns and legal representatives in as ample and beneficial a manner to all intents and purposes as the said ASSIGNOR might or could have held and enjoyed the same, if this assignment had not been made.

AND said ASSIGNOR hereby agrees to execute all papers necessary to file applications in the United States for said invention and to assign the same to said ASSIGNEE, or any assignee acquiring title to said invention, and to execute any other papers that may be needed in connection with filing said application and securing Letters Patent thereon.

AND said ASSIGNOR authorizes and requests the Commissioner of Patents to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said ASSIGNEE, its assigns and legal representatives, in accordance herewith.

IN TESTIMONY WHEREOF, this assignment is executed by said ASSIGNORS, on the respective date(s) indicated below.

Witnessed by:

Assignor Name SUNG, Dan-Keun		
Assignor signature <i>Sung Dan Keun</i>		Date March 20, 2002
Address Hanwool APT. 1503-103, Shinsung-Dong, Yusong-Gu, Taejon, 305-035, Republic of Korea		
Where Signed Taejon		
Assignor Name PARK, Su Won		
Assignor signature <i>박수원</i>		Date March 18, 2002
Address #373-1, Kusong-Dong, Yusong-Gu, Taejon, 305-701, Republic of Korea		
Where Signed Taejon		