

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the Country of Assignee previously recorded on Reel 014970 Frame 0466. Assignor(s) hereby confirms the Assignment.

**CONVEYING PARTY DATA**

Name	Execution Date
Jong-Arm Jun	11/04/2003
Sung-Hyuk Byun	11/04/2003
Byung-Jun Ahn	11/04/2003
Seung-Yeob Nam	11/04/2003
Dan-Keun Sung	11/04/2003

**RECEIVING PARTY DATA**

<b>Name:</b>	Electronics and Telecommunications Research Institute
<b>Street Address:</b>	161 Gajeong-dong, Yuseong-gu
<b>City:</b>	Daejeon-city 305-350
<b>State/Country:</b>	KOREA, REPUBLIC OF

**PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	10663476

**CORRESPONDENCE DATA**

Fax Number: (310)820-5988  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
 Phone: 3102073800  
 Email: melissa\_stead@bstz.com  
 Correspondent Name: Blakely, Sokoloff, Taylor & Zafman  
 Address Line 1: 12400 Wilshire Boulevard  
 Address Line 2: 7th floor  
 Address Line 4: Los Angeles, CALIFORNIA 90025

<b>NAME OF SUBMITTER:</b>	Eric S. Hyman
---------------------------	---------------

Total Attachments: 6  
 source=003364P136#page1.tif

CH \$40.00 10663476

source=003364P136#page2.tif  
source=003364P136#page3.tif  
source=003364P136#page4.tif  
source=003364P136#page5.tif  
source=003364P136#page6.tif

ASSIGNEE:

ELECTRONICS AND TELECOMMUNICATIONS  
RESEARCH INSTITUTE  
161 GAJEONG-DONG, YUSEONG-GU  
DAEJON-CITY 305-350, JAPAN

SERIAL NUMBER: 10663476

FILING DATE: 09/15/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: SCALABLE CROSSBAR MATRIX SWITCH AND ARBITRATION METHOD THEREOF

ALLYSON PURNELL, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
**Jong-Arm Jun; Sung-Hyuk Byun; Byung-Jun Ahn;  
Seung-Yeob Nam; Dan-Keun Sung**

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

3. Nature of Conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Execution Date: 11/4/03

2. Name and address of receiving party(ies):  
Name: **Electronics and Telecommunications  
Research Institute**

Internal Address: \_\_\_\_\_

Street Address: **161 Gajeong-dong, Yuseong-gu**

City: **Daejeon-city 305-350** State: \_\_\_\_\_ ZIP: \_\_\_\_\_

Country: **Korea**

Additional name(s) & address(es) attached?  No  Yes

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)  <b>10/663,476</b>	B. Patent No.(s) _____ _____ _____
---	---

Additional numbers attached?  No  Yes

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

Name: Blakely, Sokoloff, Taylor & Zafman LLP

Internal Address: \_\_\_\_\_

Street Address: 12400 Wilshire Boulevard  
7th Floor

City: Los Angeles State: CA ZIP: 90025

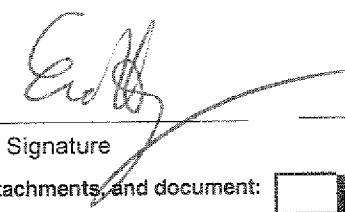
6. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41).....\$ 40.00  
 Enclosed  
 Authorized to be charged to deposit account

8. Deposit Account Number:  
02-2666  
(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 is true and correct and any attached copy is a true copy of the original document.*

**Eric S. Hyman** \_\_\_\_\_  \_\_\_\_\_ 9/2/09

Name of Person Signing Signature Date

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

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

# ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, \_\_\_\_\_, the undersigned, JUN, Jong-Arm, BYUN, Sung-Hyuk, AHN, Byung-Jun, NAM, Seung-Yeob, and SUNG, Dan-Keun

Hereby sell, assign, and transfer to: Electronics and Telecommunications Research Institute a corporation of the Republic of Korea,  
having a principal place of business at: 161 Gajeong-dong, Yuseong-gu, Daejeon-city 305-350, Korea ; ("Assignee")

its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent,

which has been executed by the undersigned concurrently herewith,

which was filed on September 15, 2003 and assigned Serial No. 10/663,476


and is entitled: **SCALABLE CROSSBAR MATRIX SWITCH AND ARBITRATION METHOD THEREOF**

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

Agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

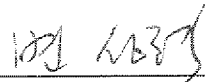
Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: November 4, 2003


  
Name: JUN, Jong-Arm

Docket No.

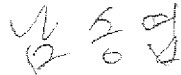
Date: November 4, 2003

  
Name: BYUN, Sung-Hyuk

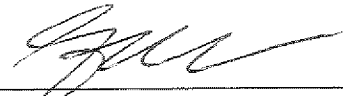
Date: November 4, 2003

  
Name: AHN, Byung-Jun

Date: November 4, 2003

  
Name: NAM, Seung-Yeob

Date: November 4, 2003

  
Name: SUNG, Dan-Keun

Docket No.

D#

2/12/04

02-17-2004

FORM PTO-1595  
(Rev. 10/02)  
OMD No. 0651-0011 (exp. 6/30/2005)

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office



To the Honorable Commissioner of Patent. **102669808** al documents or copy thereof.

1. Name of conveying party(ies):  
**Jong-Arm Jun; Sung-Hyuk Byun; Byung-Jun Ahn;  
Seung-Yeob Nam; Dan-Keun Sung**

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

2. Name and address of receiving party(ies):  
Name: **Electronics and Telecommunications  
Research Institute**

Internal Address: \_\_\_\_\_

Street Address: **161 Gajeong-dong, Yuseong-gu**

3. Nature of Conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Execution Date: **11/4/03**

City: **Daejeon-city 305-350** State: \_\_\_\_\_ ZIP: \_\_\_\_\_

Country: \_\_\_\_\_

Additional name(s) & address(es) attached?  No  Yes

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)  
**10/663,476**

B. Patent No.(s)

Additional numbers attached?  No  Yes

OPER/FINANCE  
11/12/03 12:56

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: **Blakely, Sokoloff, Taylor & Zafman LLP**

Internal Address: \_\_\_\_\_

Street Address: **12400 Wilshire Boulevard  
7th Floor**

City: **Los Angeles** State: **CA** ZIP: **90025**

6. Total number of applications and patents involved: **1**

7. Total Fee (37 CFR 3.41).....\$ **40.00**  
 Enclosed  
 Authorized to be charged to deposit account

8. Deposit Account Number:  
**02-2666**  
(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 is true and correct and any attached copy is a true copy of the original document.*

02/17/2004 DBYRNE 00000007 10663476  
01 FC:0023 40.00 US

**Eric S. Hyman**  
Name of Person Signing

Signature **2/12/04**  
Date

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

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

Docket No. 3364P136

RECORDED: 09/09/2004

PATENT  
REEL: 015102 FRAME: 0866