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**Tae Sik Cheung; Jeong Hee Lee; Bhum Cheol Lee**

*07/17/03*

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Name: **Electronics and Telecommunications  
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Additional name(s) of conveying party(ies) attached?  
 No  Yes

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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: 04/21/03  
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06/07/03

A. Patent Application No.(s)

B. Patent No.(s)

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

Name: **Blakely, Sokoloff, Taylor & Zafman LLP**

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

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

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**PATENT**  
**REEL: 014308 FRAME: 0398**

21908 U.S. PTO  
10/621808  
07/17/03

# ASSIGNMENT

In consideration of the receipt of good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

- (1) CHEUNG, Tae Sik (5) \_\_\_\_\_  
(2) LEE, Jeong Hee (6) \_\_\_\_\_  
(3) LEE, Bhum Cheol (7) \_\_\_\_\_  
(4) \_\_\_\_\_ (8) \_\_\_\_\_

who have made a certain new and useful invention, hereby sell, assign and transfer unto  
Electronics and Telecommunications Research Institute of 161 Gajeong-dong  
Yusong-gu, Daejeon-city, Rep. of Korea

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

MULTI-FUNCTIONAL SWITCH FABRIC APPARATUS AND CONTROL METHOD FOR THE SAME

(a) for which an application for United States Letters Patent was filed on \_\_\_\_\_, and identified by United States Serial No. \_\_\_\_\_ ;  
or

(b) for which an application for United States Letters Patent was executed on April 21, 2003  
May 19, 2003, June 1, 2003

and the undersigned hereby authorize and request the United States Commissioner of Patent and Trademarks to issue any and all United States Letters Patents which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals or continuations thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED of the dates indicated aside our signatures:

<u>INVENTORS</u>	<u>DATE SIGNED</u>
1) <u>Taesik Cheung</u> Name: CHEUNG Tae Sik	<u>APR. 21, 2003</u>
2) <u>[Signature]</u> Name: LEE, Jeong Hee	<u>May. 19, 2003</u>
3) <u>[Signature]</u> Name: LEE, Bhum Cheol	<u>Jun. 07, 2003</u>