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U.S. DEPARTMENT OF COMMERCE  
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1. Name of conveying party(ies): <b>ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE</b>		2. Name and address of receiving party(ies): Name: <b>FIRSTRA CO., LTD.</b> Address: <b>#708 Hyundai 41 Tower, 917-9, Mok-dong, Yangcheon-gu, Seoul 158-050, Republic of Korea</b>	
Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>10/21/04</b>	
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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:

A. Patent Application No.(s)	B. Patent No.(s) <b>5,682,380 (Date of Patent: 10281997)</b>
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

5. Name and address of party to whom correspondence concerning document should be mailed:  <b>Customer No. 47604 or PIPER RUDNICK LLP P.O. Box 9271 Reston, VA 20195</b>		6. Total applications and patents involved: <b>1</b>
		7. Total fee (37 CFR 3.41): <b>\$40.00</b> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account
		8. Deposit account number: <b>50-3266</b> (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.*

<b>Yoon S. Ham</b>		<b>October 21, 2004</b>
Name of Person Signing	Signature	Date
Registration Number: <b>45,307</b>		
Total number of pages including this cover sheet: <b>3</b>		

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## ASSIGNMENT

WHEREAS, Electronics and Telecommunications Research Institute, a Corporation of Republic of Korea, located and doing business at 161 Gajeong-dong, Yuseong-gu, Daejeon 305-350, Republic of Korea, (hereinafter Assignor) owns U.S. Letters Patent 5,682,380; and

WHEREAS, FIRSTRA CO., LTD., a Corporation of Republic of Korea, located and doing business at #708 Hyundai 41 Tower, 917-9, Mok-dong, Yangcheon-gu, Seoul 158-050, Republic of Korea, (hereinafter Assignee), is desirous of acquiring the complete title and interest in said Letters Patent;

NOW, THEREFORE, in consideration of the sum of one dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, Assignor by these presents does sell, assign and transfer unto said Assignee, its successors, legal representatives, heirs and assigns the entire right, title and interest in the United States to said invention as described in Letters Patent 5,682,380, and all re-issues, or extensions of said Letters Patent to be held and enjoyed by said Assignee for its own use, or for its legal representatives, successors, heirs, and assigns to the full end of the term for which said Letters Patent is granted, and any extensions thereof, as fully and entirely as the same would have been held by said Assignor had this assignment and sale not been made, and for the same consideration said Assignors hereby covenant and agree that at the time of execution and delivery of this instrument it is the lawful owner of the complete right, title and interest in and to said invention and said Letters Patent above mentioned, and its interest is unencumbered and that it has good and full right and lawful authority to sell and convey its interest in the manner set forth herein; and for the same consideration Assignor hereby covenant and agrees that it will, when ever counsel for said Assignee, or counsel for their legal successors, legal representatives, heirs or assigns shall advise that any proceedings in connection with said Letters Patent or any re-issue or extension of said Letters Patent to be obtained thereon, is lawful and desirable, sign all papers and documents, make all lawful oaths, and do all acts

necessary as required to be done for the procurement, maintenance, enforcement and defense of said Letters Patent, without charge to said Assignor, its successors, legal representatives, heirs and assigns, but at the expense of said Assignee, their successors, legal representatives, heirs and assigns.

Assignor hereby further assigns to Assignee all claims and causes of action for infringement of the patent rights assigned herein, including the right to sue for, and collect damages for, any and all acts of past and future infringement.

Assignor hereby grant(s) the law firm of PIPER RUDNICK LLP, P.O. Box 9271, Reston, VA 20195, the power to insert on this assignment any further identification 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.

Assignor: **Electronics and Telecommunications Research Institute**

Date: October 12, 2004

Signature:

Name :

Title :



Shin, Jung-Hyuk

Manager of Intellectual Property  
Management Team

YSH/kyc