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R 103344002_ To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below. 1. Name of conveying party(ies)/Execution Date(s): 2. Name and address of receiving party(ies) Oct. 23, 2006 1) KIM, Kap Dong Name: ELECTRONICS AND TELECOMMUNICATIONS 2) SOK, Song Woo Oct. 23, 2006 botemak Address: RESEARCH INSTITUTE 3) KIM, Hag Young Oct. 23, 2006 4) KIM, Myung Joon Oct. 24, 2006 Execution Date(s) Street Address: 161 Gajeong-dong, Additional name(s) of conveying party(ies) attached? Yes 📝 No Yuseong-gu, Daejeon, Republic of 3. Nature of conveyance: Korea Assignment Merger City: ___ Security Agreement Change of Name State: Government Interest Assignment Executive Order 9424, Confirmatory License Additional name(s) & address(es) attached? ☐ Yes ☑ No Other 4. Application or patent number(s): This document is being filed together with a new application. A. Patent Application No.(s) B. Patent No.(s) 11/605/81 Additional numbers attached? 5. Name and address to whom correspondence 6. Total number of applications and patents concerning document should be mailed: involved: Name: Woochoon W. Park 40.00 7. Total fee (37 CFR 1.21(h) & 3.41) \$ Internal Address: Authorized to be charged by credit card Authorized to be charged to deposit account Street Address: c/o Ladas & Parry Enclosed 224 South Michigan Avenue None required (government interest not affecting title) 8. Payment Information Chicago City: a. Credit Card Last 4 Numbers State: Illinois 60604 Zip: Expiration Date (312) 427-1300 Phone Number: b. Deposit Account Number 12-0400 Fax Number: Authorized User Name Ladas & Parry LLP Email Address: 9. Signature: November 28, 2006 Signature Woochoon W. Park

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

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PATENT REEL: 018646 FRAME: 0469

UNITED STATES OF AMERICA ASSIGNMENT

In consideration of the payment of ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for the other good and valuable consideration,

ASSIGNOR:

Kim, Kap Dong

102-904 Hanbit Apt., Eoeun-dong, Yusong-gu, Daejeon, Republic of Korea

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and

KIM, Myung Joon

393-17 Doryong-dong, Yusong-gu, Daejeon, Republic of Korea

hereby sells, assigns and transfers to

ASSIGNEE:

ELECTRONICS & TELECOMMUNICATIONS RESEARCH INSTITUTE 161 Gajeong-dong, Yusong-gu, Daejeon, Republic of Korea

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions in and to, any and all improvements which are disclosed in the Application entitled

METHOD OF DATA PLACEMENT AND CONTROL IN BLOCK-DIVIDED DISTRIBUTED PARITY DISK ARRAY

which app	olication was		
x	(a) executed by the undersigned on	even date herewith	
			·
	(b) filed as Serial No.	on	

and, in and to all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, substitute, reissue or re-examination thereof.

PATENT REEL: 018646 FRAME: 0470 ASSIGNOR hereby covenants that no assignment, sale agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/we have set our hand and seal

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INVENTOR: Kap Dong Kim
Sch Songwor
INVENTOR: Song Woo Sok
INVENTOR: Hag Young Kim
INVENTOR: Myung Joon Kim

PATENT REEL: 018646 FRAME: 0471

RECORDED: 11/28/2006