FORM PTO-1595   **RE**   ▌▌▐▌▐▌▌▐▌▐▌▌▐▌▐   Г   U.S. DEPARTMENT OF COMMERCE

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

1. Name of conveying party(ies):
    Cheong-rae RO   *05/28/02*

2. Name and Address of receiving party(ies):

    SAMSUNG ELECTRONICS CO., LTD.
    416 Maetan-dong, Paldal-gu
    Suwon City, Kyungki-do
    Republic of Korea

3. Nature of conveyance:
    X Assignment   ___ Merger
    ___ Security Agreement   ___ Change of Name
    ___ Other: _____
    Execution Date(s): May 27, 2002

4. Application number(s) or patent number(s):   *10/155022*
    ☒ This document is being filed together with a new application:
    (a)   The execution date(s) of the application is/are: May 27, 2002
    (b)   The title is: METHOD OF OPTIMIZING DESIGN PARAMETERS OF DATA STORAGE SYSTEM
           AND METHOD OF APPLYING OPTIMIZED DESIGN PARAMETERS
                    OR
    ☐ This document is being filed after filing of the application:
    (a)   Patent Application No(s). ___/_____, filed _____; or
    (b)   Patent No(s).   , issued   .

5. Name and address of party to whom correspondence concerning document should be mailed:
    STAAS & HALSEY LLP   Our Docket: 1293.1375
    Attention: Michael D. Stein
    700 Eleventh Street, N.W., Suite 500
    Washington, D.C. 20001

6. Total number of applications and patents involved: __1_

7. Total fee (37 CFR 3.41).................... ($ 40.00 per Assignment)
    _X_   Enclosed
    ___   Authorized to be charged to deposit account.

8. Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account)
    (Attach duplicate copy of this page if paying by deposit account)

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.

05/30/2002 MMEKONEN 00000046 10155022

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Michael D. Stein, Reg. No. 37,240   _____   May 28, 2002
Name of Person Signing   Signature   Date

Total number of pages including cover sheet: _2_

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PATENT
REEL: 012933 FRAME: 0515

U.S. ASSIGNMENT

SEE TERM

IN CONSIDERATION of the sum of One Dollar ($1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by

ASSIGNEE: **SAMSUNG ELECTRONICS CO., LTD.,**
a corporation organized under the laws of the Republic of Korea,
ADDRESS: 416 Maetan-dong
Paldal-gu, Suwon-city, Kyungki-do
Republic of KOREA,

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled
(Title of Invention)

METHOD OF OPTIMIZING DESIGN PARAMETERS OF DATA STORAGE SYSTEM AND METHOD OF APPLYING OPTIMIZED DESIGN PARAMETERS

relating to International Patent Application PCT/_____/_____ and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on 27 May 2002_____ ; *(Insert date of execution of application, if not concurrent)*

(b) filed on _____ ,

Serial No ___/_____ :

> Any registered attorney of STAAS & HALSEY LLP, 700 Eleventh Street, N W., Washington, D.C. 20001 (202/434 1500) is hereby authorized to insert in (b) the specified data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Typed Name & Signature of Inventor(s))	*(Date)*	*(Typed Name & Signature of Witness(es))*
1) Cheong-rae Ro	27 May 2002	
2)		
3)		
4)		
5)		
6)		
7)		
8)		