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PATENTS ONLY

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To the Director of the United States Patent and Trademark Office. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Yasuhiro KIMURA
Yuichi KOBAYASHI
Kenichiro YOSHII
Atsushi SHONO
Hideaki SATO
Toshibumi SEKI

6-24-03

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

Name: KABUSHIKI KAISHA TOSHIBA
Address: 1-1, Shibaura 1-chome, Minato-ku, Tokyo, Japan

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

3. Nature of Conveyance:

- Assignment
- Security Agreement
- Other
- Merger
- Change of Name

Execution Date: March 24, 2003

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

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)
10/396,396

B. Patent No.(s)

Additional numbers attached? Yes No

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



22850

Tel. (703) 413-3000
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6. Total applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

- Enclosed
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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.

Marvin J. Spivak
Name of Person Signing

Joseph A. Kafetta Jr.
Signature

June 24, 2003
Date

Registration Number: 24,913

JOSEPH A. KAFETTA, JR.
Registration No. 26,813

Total number of pages including this cover sheet: 3

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Finally, the attention of the Patent Office is directed to the change of address of Applicants' representative, effective January 6, 2003:
Obon, Spivak, McClelland, Maier & Neustadt, P.C.
1940 Duke Street
Alexandria, VA 22314

PATENT
REEL: 014203 FRAME: 0109

Assignment of Application

WHEREAS, I (WE) Yasuhiro KIMURA of Kanagawa, Japan;
Yuichi KOBA of Kanagawa, Japan;
Kenichiro YOSHII of Tokyo, Japan;
Atsushi SHONO of Kanagawa, Japan;
Hideaki SATO of Kanagawa, Japan;
Toshibumi SEKI of Kanagawa, Japan;

INSERT NAMES AND RESIDENCE ADDRESS OF THE INVENTORS:

_____, respectively,

INSERT TITLE OF INVENTION:

have invented certain new and useful improvements in: DATA TRANSFER SCHEME USING RE-DIRECT RESPONSE MESSAGE FOR REDUCING NETWORK LOAD

INSERT DATE INVENTORS SIGNED DECLARATION:

for which an application for Letters Patent was executed on March 24, 2003

(Application No. 10/396,396, filed March 26, 2003), and

INSERT NAME AND ADDRESS OF COMPANY OR OTHER ASSIGNEE

WHEREAS, KABUSHIKI KAISHA TOSHIBA

(hereinafter referred to as "ASSIGNEE") having a place of business at: 1-1, Shibaura 1-chome, Minato-ku, Tokyo, Japan

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202 the power to insert on this assignment any further identification, including the application number and filing date, 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.

Date: March 24, 2003 *Yasuhiro Kimura*
 (Signature of Inventor) **Yasuhiro KIMURA**

Date: March 24, 2003 *Yuichi Koba*
 (Signature of Inventor) **Yuichi Koba**

Date: March 24, 2003 *Kenichiro Yoshii*
 (Signature of Inventor) **Kenichiro YOSHII**

Date: March 24, 2003 *Atsushi Shono*
 (Signature of Inventor) **Atsushi SHONO**

Date: March 24, 2003 *Hideaki Sato*
 (Signature of Inventor) **Hideaki SATO**

Date: March 24, 2003 *Toshibumi Seki*
 (Signature of Inventor) **Toshibumi SEKI**

Date: _____
 (Signature of Inventor)

Date: _____
 (Signature of Inventor)

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