

*A/1581-90*

04-05-1999



To the Honorable Commissioner of Patents  
Please record the attached original document.

100999694

IN. BOX ASSIGNMENTS

1. Name of conveying party(ies):  
Yoshihiro KIKUCHI, Toshiaki WATANABE,  
Kenshi DACHIKU, Takeshi CHUJOH and  
Takeshi NAGAI  
  
*MRD 9-16-98*  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):  
  
**300 Rec'd PCT/PTO 16 SEP 1998**  
Name: KABUSHIKI KAISHA TOSHIBA  
Internal Address:

3. Nature of conveyance:  
  
 Assignment  Merger  
 Security Agreement  Change of Name

Street Address: 72, Horikawa-Cho, Saiwai-Ku,  
Kawasaki-Shi, Kanagawa-Ken, Japan  
City:  
State: Zip Code:

Other  
Execution Date: September 9, 1998

Additional name(s) & Address(es) attached?  
 Yes  No

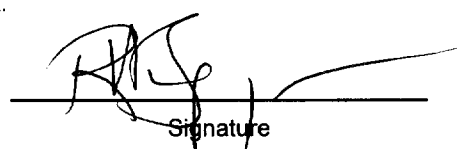
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application: September 9, 1998  
A. Patent Application Number(s):  
B. Patent Number(s): *09/142871*  
Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: Mr. Ernest F. Chapman  
Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

6. Total number of applications and registrations involved: 1  
7. Total fee (37 CFR 3.41): \$40  
  
Enclosed (Please charge deficiency to deposit account)   
Authorized to be charged to deposit account

Street Address: 1300 I Street, N.W.  
City: Washington  
State: DC Zip: 20005-3315

8. Deposit account number: 06-0916

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.  
  
Richard V. Burgujian  September 16, 1998  
Signature Date

Total number of pages including cover sheet, attachments and documents 3

A S S I G N M E N T

WHEREAS I/we, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

"CODING SYSTEM AND DECODING SYSTEM"

for which I/WE executed an application for United States Letters Patent concurrently herewith or on September 9, 1998 or filed an application for United States Letters Patent on \_\_\_\_\_, 19\_\_\_\_ (Serial No. \_\_\_\_\_); and

WHEREAS, KABUSHIKI KAISHA TOSHIBA, a corporation of Japan, whose post office address is 72, Horikawa-Cho, Saiwai-Ku, Kawasaki-Shi, Kanagawa-Ken, Japan (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with assignee, its successors and assigns, any facts known to me/us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/We have hereunto set our hand(s).

- |  |   |                            |
|--|---|----------------------------|
| 1. Full Name of Sole or First Assignor : | Assignor's Signature  | : Date                     |
| <u>Yoshihiro KIKUCHI</u>                 | <u>Yoshihiro Kikuchi</u>  | : <u>September 9, 1998</u> |
| Address                                  | <u>604, Kureare Toshiba Yoshino-Cho, 1-10-1, Takasago-Cho, Minami-Ku, Yokohama-Shi, Kanagawa-Ken, Japan</u> | : Citizenship              |
|  |   | : <u>Japan</u>             |
| 2. Full Name of Second Assignor :        | Assignor's Signature  | : Date                     |
| <u>Toshiaki WATANABE</u>                 | <u>Toshiaki Watanabe</u>  | : <u>September 9, 1998</u> |
| Address                                  | <u>3-3-5, Shirayuri, Izumi-Ku, Yokohama-Shi, Kanagawa-Ken, Japan</u>  | : Citizenship              |
|  |   | : <u>Japan</u>             |
| 3. Full Name of Third Assignor :         | Assignor's Signature  | : Date                     |
| <u>Kenshi DACHIKU</u>                    | <u>Kenshi Dachiku</u>   | : <u>September 9, 1998</u> |
| Address                                  | <u>101, Fare Toshiba, 590, Unane, Takatsu-Ku, Kawasaki-Shi, Kanagawa-Ken, Japan</u>                         | : Citizenship              |
|  |   | : <u>Japan</u>             |

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P. · WASHINGTON, D.C.

Full Name of Fourth Assignor Takeshi CHUJOH	: Assignor's Signature <i>Takeshi Chujo</i>	: Date September 9, 1998
Address 2-23-13, Hatsudai, Shibuya-Ku, Tokyo-To, Japan		: Citizenship Japan
Full Name of Fifth Assignor Takeshi NAGAI	: Assignor's Signature <i>Takeshi Nagai</i>	: Date September 9, 1998
Address 3-17-71, Akitsu-Cho, Higashi-Murayama-Shi, Tokyo-To, Japan		: Citizenship Japan
Full Name of Sixth Assignor	: Assignor's Signature	: Date
Address		: Citizenship
Full Name of Seventh Assignor	: Assignor's Signature	: Date
Address		: Citizenship
Full Name of Eighth Assignor	: Assignor's Signature	: Date
Address		: Citizenship
Full Name of Ninth Assignor	: Assignor's Signature	: Date
Address		: Citizenship
Full Name of Tenth Assignor	: Assignor's Signature	: Date
Address		: Citizenship
Full Name of Eleventh Assignor	: Assignor's Signature	: Date
Address		: Citizenship
Full Name of Twelfth Assignor	: Assignor's Signature	: Date
Address		: Citizenship