

12-23-1998



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To the Honorable Commissioner of Pa.

attached original documents or copy thereof.

1. Name of conveying party(ies):
Yoshihiro OHBA
Junichi TAKAHASHI
Shigeo MATSUZAWA and
Yasuhiro KATSUBE

MIP 12-9-98

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

2. Name and address of receiving party(ies):
 Name: KABUSHIKI KAISHA TOSHIBA
 Internal Address:
 Street Address: 72 Horikawa-cho, Saiwai-ku
Kanagawa-ken
 City: Kawasaki-shi, State: Japan ZIP:

Additional name(s) & address(es) attached? No

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

Execution Date: November 18, 1998

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)
09/131,361

B. Patent No.(s)

Additional numbers attached? No

5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: Richard L. Schwaab
 Internal Address: FOLEY & LARDNER
 Street Address: 3000 K Street, N.W., Suite 500
 City: Washington, State: D.C. ZIP: 20007-5109

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R. § 3.41). \$40.00
 Enclosed
 Authorized to be charged to deposit account

8. Deposit account number: 19-0741
 (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.

Richard L. Schwaab *[Signature]* December 9, 1998
 Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and document: 2

Mail documents to be recorded with required cover sheet information to:
 Commissioner of Patents & Trademarks, Box Assignments
 Washington, D.C. 20231

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

name and
address of
assignee

KABUSHIKI KAISHA TOSHIBA
72 Horikawa-cho, Saiwai-ku, Kawasaki-shi,
Kanagawa-ken, Japan

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to his invention relating to

title of
invention

SCHEME FOR LABEL SWITCHED PATH LOOP DETECTION AT NODE DEVICE.

as set forth in his United States Patent Application

check one

executed concurrently herewith

executed on _____

Serial No. 09/131,361 Filed August 7, 1998

in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention;

Each of the undersigned hereby grants the firm of FOLEY & LARDNER the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

NAMES AND SIGNATURES OF INVENTORS

Name: Yoshihiro OHBA	Signature: <i>Yoshihiro Ohba</i>	Date: 11/18/1998
Name: Junichi TAKAHASHI	Signature: <i>Junichi Takahashi</i>	Date: 11/18/1998
Name: Shigeo MATSUZAWA	Signature: <i>Shigeo Matsuzawa</i>	Date: 11/18/1998
Name: Yasuhiro KATSUBE	Signature: <i>Yasuhiro Katube</i>	Date: 11/18/1998
Name:	Signature:	Date:
Name:	Signature:	Date:
Name:	Signature:	Date:
Name:	Signature:	Date:

Note: *Prima facie* evidence of execution may optionally be obtained by execution of this document before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.