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Atty. Docket No.: 1190-0392P  
Page 1 of 1



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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):

Manabu Tsukamoto, Masayoshi Shimamoto, Kenji Goto, Takehiko Umeyama and Yoshiji Inoue

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

2. Name and address of receiving party(ies)

Name: Mitsubishi Denki Kabushiki Kaisha

Internal Address:

Street Address: 2-3, Marunouchi 2-chome, Chiyoda-ku

City: Tokyo State: ZIP:

Country: JAPAN

Postal Code: 100-8310

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

3. Nature of conveyance:

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

Execution Date: February 10, 1999 & February 12, 1999

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).

09/239,857

B. Patent No(s).

Additional numbers attached?  Yes  No

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

Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP

Street Address: P.O. BOX 747

City: FALLS CHURCH State: VA ZIP: 22040-0747

Country: USA

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: 02-2448

(Attach triplicate 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

John A. Castellano, Reg. No. 35,094  
Name of Person Signing/Reg No.

Signature

March 4, 1999  
Date

Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:  
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PATENT  
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ATTORNEY DOCKET NO.  
1190-0392P

### ASSIGNMENT

Application No. 09/239,857

Filed January 29, 1999

**Insert Name(s)  
of Inventor(s)** ➡

WHEREAS, Manabu Tsukamoto, Masayoshi Shimamoto, Kenji Goto,  
Takehiko Umeyama and Yoshiji Inoue

**Insert Title  
of Invention** ➡

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in \_\_\_\_\_  
OPTICAL INFORMATION REPRODUCTION DEVICE AND SIGNAL PROCESSING  
CIRCUIT USED THEREIN

for which an application for Letters Patent of the United States of America has been executed by the undersigned

**Insert Date  
of Signing of  
Application** ➡

on February 10, 1999 and February 12, 1999; and

**Insert Name  
of Assignee** ➡

WHEREAS, Mitsubishi Denki Kabushiki Kaisha

**Insert Address  
of Assignee** ➡

of 2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN

**CHECK BOX  
IF APPROPRIATE** ➡

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and  in any and all foreign countries.

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for which the same may be granted.

30/10/30

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date February 10, 1999 , Name of Inventor Manabu Tsukamoto  
(signature) Manabu Tsukamoto

Date February 10, 1999 , Name of Inventor Masayoshi Shimamoto  
(signature) Masayoshi Shimamoto

Date February 10, 1999 , Name of Inventor Kenji Goto  
(signature) Kenji Goto

Date February 10, 1999 , Name of Inventor Takehiko Umeyama  
(signature) Takehiko Umeyama

Date February 12, 1999 , Name of Inventor Yoshiji Inoue  
(signature) Yoshiji Inoue

Date \_\_\_\_\_ , Name of Inventor \_\_\_\_\_  
(signature)