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U.S. DEPARTMENT OF COMMERCE  
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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):

Takayuki YANAGISAWA (9/30/2006), Yoshihito  
HIRANO (9/30/2006), Syuhei YAMAMOTO  
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Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies)

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

3. Nature of conveyance/Execution Date(s):

Execution Date(s): in parentheses after inventor name

Assignment  Merger  Change of Name

Security Agreement  Joint Research Agreement

Government Interest Assignment

Executive Order 9424, Confirmatory License

Other

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

NEW

B. Patent No.(s)

11/579454

Additional numbers attached?  Yes  No

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

Name: Michael K. Mutter  
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6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

Authorized to be charged by credit card

Authorized to be charged to deposit account

Enclosed

None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers

Expiration Date

b. Deposit Account Number

Authorized User Name

9. Signature:

Signature

November 2, 2006

Date

Michael K. Mutter - 29,680

Name of Person Signing

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

3

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RECORDATION FORM COVER SHEET  
(continued)

Additional Conveying Party(ies)/Execution Date(s) (1. Continued):

Kiyohide SAKAI (10/2/2006), and Yasuharu KOYATA (9/30/2006)

Additional Assignees (2. Continued):

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Additional Applications and/or Patents (4. Continued):

Additional Patent Application Numbers  
4A. Continued:

Additional Patent Numbers  
4B. Continued:

Additional numbers attached?

Yes

No

## ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned, Takayuki YANAGISAWA, Yoshihito HIRANO, Syuhei YAMAMOTO, Masao IMAKI, Kiyohide SAKAI and Yasuharu KOYATA hereby sells, assigns and transfers to

MITSUBISHI ELECTRIC CORPORATION

of 7-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN

(hereinafter called the Assignee), its successors and assigns, the entire right, title, and interest in and to:

- (i) the application for United States Letters Patent entitled MODE CONTROL WAVEGUIDE LASER DEVICE which was executed by the undersigned on 9/30/06; 10/10/06; 10/2/06 or was filed on March 30, 2005 and accorded Serial No. PCT/JP2005/006103 (hereinafter called the Application);
- (ii) any and all inventions and improvements which are described in the Application;
- (iii) any and all United States Letters Patents which may be granted on the Application (hereinafter called Patent);
- (iv) any and all divisions, continuations, substitutes, reexaminations, reissues, or extensions of the Application or Patent; and
- (v) all benefits under the International Convention for the Protection of Industrial Property.

Said Assignee of said patent application and the attorneys appointed to prosecute said patent application are authorized to insert in this instrument the filing date and serial number of said application.

The Commissioner of Patents and Trademarks is authorized to issue any and all of said Letters Patent, when granted, to said Assignee.

Further, it is agreed that, when requested, without charge to but at the expense of said Assignee, the undersigned will execute all divisional, continuing, substitute, or reissue patent applications; execute all additional assignments and other writings, including reexamination papers; and provide all reasonable assistance requested by the Assignee to secure and maintain appropriate patent protection.

INVENTOR(S):

DATE

(Takayuki YANAGISAWA)	<u>Takayuki Yanagisawa</u>	<u>Sep. 30, 2006</u>
(Yoshihito HIRANO)	<u>Yoshihito Hirano</u>	<u>Sep. 30, 2006</u>
(Syuhei YAMAMOTO)	<u>Syuhei Yamamoto</u>	<u>Sep. 30, 2006</u>
(Masao IMAKI)	<u>Masao Imaki</u>	<u>Oct. 10, 2006</u>
(Kiyohide SAKAI)	<u>Kiyohide Sakai</u>	<u>Oct. 2, 2006</u>
(Yasuharu KOYATA)	<u>Yasuharu Koyata</u>	<u>Sep. 30, 2006</u>

PATENT