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U.S. DEPARTMENT OF COMMERCE  
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11/587678  
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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):  
Kenkichi SHIMOMURA (10/3/2006), Takashi SUGIHARA (10/3/2006), and Katsuhiko SHIMIZU (10/3/2006)  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies)  
Name: Mitsubishi Electric Corporation  
Internal Address:  
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Tokyo  
100-8310  
JAPAN  
City:  
State:  
Country: Zip:  
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):  
A. Patent Application No.(s)  
NEW  
Additional numbers attached?  Yes  No

This document is being filed together with a new application.  
B. Patent No.(s)  
11/587678  
 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  
Michael K. Mutter - 29,680  
Name of Person Signing

#40,439  
October 26, 2006  
Date  
Total number of pages including cover sheet, attachments, and documents: 3

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ATTORNEY DOCKET NO. 2611-0270 PUS1

**BIRCH, STEWART, KOLASCH & BIRCH, LLP**

UNITED STATES PATENT RIGHTS, OR

UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

**ASSIGNMENT**

Application No. NEW

Filed 10/26/06

Insert Name(s)  
of Inventor(s)

\*\*\***(Given Name FAMILY NAME (ALL CAPS))**\*\*\*

WHEREAS, Kenkichi SHIMOMURA, Takashi SUGIHARA and Katsuhiko SHIMIZU of

c/o Mitsubishi Electric Corporation

7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8310 Japan

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in  
**BIAS CIRCUIT**

Insert Title  
of Invention

for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application).

Insert Date  
of Signing of  
Application

on Oct. 3, 2006; and

Insert Name  
of Assignee

WHEREAS, Mitsubishi Electric Corporation

Insert Address  
of Assignee

of 7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8310 Japan

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 foreign countries.

**CHECK BOX  
IF APPROPRIATE**

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, conversions and extensions thereof for the full term or terms for which the same may be granted.

Attorney Docket No. 2611-0270PUS1

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion 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, conversion 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 conversion 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 Oct. 3, 2006

Name of Inventor Kenkichi Shimomura  
(signature) Kenkichi SHIMOMURA

Date Oct. 3, 2006

Name of Inventor Takashi Sugihara  
(signature) Takashi SUGIHARA

Date Oct. 3, 2006

Name of Inventor Katsuhiro Shimizu  
(signature) Katsuhiro SHIMIZU

Date \_\_\_\_\_

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

Date \_\_\_\_\_

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

Date \_\_\_\_\_

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