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| Atsuyoshi YANO (04/30/2008) and Ikuo<br>KAJIYAMA (04/30/2008)  | Name: Mitsubishi Electric Corporation   |  |  |
| Additional name(s) of conveying party(ies) attached?   | Internal Address: Street Address:   |  |  |
| A. Patent Application No.(s)  NEW  | 7-3, Marunouchi 2-chome, Chiyoda-ku Tokyo 100-8310 JAPAN  City: State: Country: Additional name(s) & address(es) attached:  This document is being filed together with a new application.  B. Patent No.(s) |  |  |
| Additional numbers attached?  5. Name and address to whom correspondence   | 6 Total number of applications and  |  |  |
| concerning document should be mailed:  | patents involved:   |  |  |
| Name: D. Richard Anderson BIRCH, STEWART, KOLASCH & BIRCH, LLP Internal Address: Atty. Dkt.: 1163-0668PUS1 Street Address: 8110 Gatehouse Road Suite 100 East P.O. Box 747                       | 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00  Authorized to be charged by credit card  X Authorized to be charged to deposit account  Enclosed  None required (government interest not affecting title)    |  |  |
| City: Falls Church   | 8. Payment Information  |  |  |
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| Signature  D. Ríchard Anderson - 40,439  Name of Person Signing  | Total number of pages including cover sheet, attachments, and documents:  |  |  |
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ATTORNEY DOCKET NO. 1163-0668PUS1

## BIRCH, STEWART, KOLASCH & BIRCH, LLP

UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

## **ASSIGNMENT**

|   | Application No. NFW   | Filed May 21, 2008   |
|---|---|--|
| Insert Name(s) of Inventor(s)               | ***(Given Name FAMILY NAME (ALL C<br>WHEREAS, we, Atsuyoshi YANO of c/c   |  |
|   | Corporation, Tokyo, Japan and Ikuo KAJ  | IVAMA of c/o Mitsubishi  |
|   | Electric Engineering Company Limited, 7   | Cokyo, Japan   |
|   |   |  |
| Insert Title                                | (hereinafter designated as the undersigned) has (have) invented certa   | in new and useful improvements in  |
| of invention                                |   |  |
|   | for which an application for Letters Patent of the United States of (except in the case of a provisional application).  | America has been executed by the undersigned   |
| Insert Date<br>of Signing of<br>Application | onApril 30, 2008  | ; and  |
| Insert Name<br>of Assignee                  | WHEREAS, Mitsubishi Electric Corp   | poration   |
| Insert Address<br>of Assignee               | of 7-3, Marunouchi 2-chome, Chiyoda-kı  | ı, Tokyo 100-8310 Japan  |
| CHECK BOX IF APPROPRIATE                    | its heirs, successors, legal representatives and assigns (hereinaft acquiring the entire right, title and interest in and to said invention granted therefor in the United States of America and in any foreign countries.  |  |
|   | NOW, THEREFORE, in consideration of the sum of Ten Dollars receipt of which is hereby acknowledged, and other good and valuable assigned and transferred, and by these presents does sell, assign exclusive right to the said invention in the United States of America, the entire right, title and interest in and to any and all Letters Patent States of America, its territories, dependencies and possessions, and foreign countries; | e consideration, the undersigned has (have) sold,<br>and transfer unto said Assignee the full and<br>its territories, dependencies and possessions and<br>t(s) which may be granted therefor in the United |
|   | and to any and all divisions, reissues, continuations, conversions and which the same may be granted.   | extensions thereof for the full term or terms for  |

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PATENT REEL: 021022 FRAME: 0885 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 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              | April 30,                             | 2008 | •                  | Name of Inventor | Atsuyoshi YANO | Atsuyosh:              | Yano |
|-------------------|---------------------------------------|------|--------------------|------------------|----------------|------------------------|------|
|                   |                                       |      |                    |                  | (signature)    |                        | 1    |
| Date <u>April</u> | April 30, 2008                        | ,    | Name of Inventor   | Ikuo KAJIYAMA    | Ikuo           | Kajiyama               |      |
|                   |                                       |      |                    |                  | (signature)    |                        | 1 /  |
| D. 4              |                                       |      |                    | N                |                |                        |      |
| Date              |                                       | _, N | Name of Inventor   | (signature)      |                | Mary's school security |      |
|                   |                                       |      |                    |                  |                |                        |      |
| Date              | · · · · · · · · · · · · · · · · · · · |      | ı                  | Name of Inventor | (signature)    |                        |      |
|                   |                                       |      |                    |                  | (0.5)          |                        |      |
| Date              |                                       | ,    |                    | Name of Inventor |                |                        |      |
|                   |                                       |      |                    |                  | (signature)    |                        |      |
| Date              |                                       | ,    |                    | Name of Inventor |                |                        |      |
|                   |                                       | ,    | Traine of inventor | (signature)      |                |                        |      |

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