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09/679449  
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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

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Hiroaki NAGANO  
Kazuhiro MORI  
Kenji ITOH  
  
Additional name(s) of conveying party(ies) attached? [ ] Yes [ X ] No

2. Name and address of receiving party(ies):  
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Country Japan ZIP 100-8310  
  
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[ ] Yes [ X ] No

3. Name of Conveyance:  
  
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Execution Date: September 20, 2000

4. Application number(s) or patent number(s):  
09 679449  
If this document is being filed together with a new application, the execution date of the application is: September 20, 2000  
  
A. Patent Application No.(s) B. Patent No.(s)  
  
Additional numbers attached? [ ] Yes [ ] No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: Vincent M. DeLuca  
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6. Total number of applications and patents involved: 1  
7. Total fee (37 CFR 3.41): . . . . \$ 40.00  
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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.*  
  
Vincent M. DeLuca Vincent M DeLuca 10/4/00  
Name of Person Signing Signature Date

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

Attorney Docket Number: 1137-817

**ASSIGNMENT OF PATENT APPLICATION**

WHEREAS, Hiroaki NAGANO, a citizen of Japan,  
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residing at 2-3. Marunouchi 2-chome. Chiyoda-ku. Tokyo 100-8310 Japan  
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Kenji ITOH, a citizen of Japan,  
*Third Named Inventor, if any* *c/o* MITSUBISHI DENKI KABUSHIKI KAISHA  
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*Address*

\_\_\_\_\_, a citizen of \_\_\_\_\_,  
*Fourth Named Inventor, if any*  
residing at \_\_\_\_\_  
*Address*

\_\_\_\_\_, a citizen of \_\_\_\_\_,  
*Fifth Named Inventor, if any*  
residing at \_\_\_\_\_  
*Address*

\_\_\_\_\_, a citizen of \_\_\_\_\_,  
*Sixth Named Inventor, if any*  
residing at \_\_\_\_\_  
*Address*

\_\_\_\_\_, a citizen of \_\_\_\_\_,  
*Seventh Named Inventor, if any*  
residing at \_\_\_\_\_  
*Address*

ASSIGNOR(S), is/are the inventor(s) of an invention in "TRANSMITTING AND RECEIVING APPARATUS"  
for which I/we have executed an application for Letters Patent of the United States,

(Check One)  of even date herewith  
 serial number \_\_\_\_\_,  
filed \_\_\_\_\_; and

WHEREAS, MITSUBISHI DENKI KABUSHIKI KAISHA of 2-3, Marunouchi 2-chome,  
*Assignee* *Citizenship/Corporate Situs* *Address*  
Chiyoda-ku, Tokyo 100-8310 Japan

ASSIGNEE, is desirous of obtaining the entire right, title and interest in, to and under the said invention and the said application;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me/us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I/we, the said ASSIGNOR(S) have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the said invention, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reexamination certificates, reissues and extensions thereof, and I/we hereby authorize and request the Commissioner of Patents of the United States, to issue all Letters Patent for said invention to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I/WE HEREBY covenant that I/we have the full right to convey the entire interest herein assigned, and that I/we have not executed, and will not execute, any agreement in conflict herewith.

AND I/WE HEREBY further covenant and agree that I/we will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me/us respecting said invention, and testify in any legal

proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention at the expense of the ASSIGNEE.

AND I/WE HEREBY further covenant and agree that I/we will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me/us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention at the expense of the ASSIGNEE.

IN TESTIMONY WHEREOF, I/we hereunto set my/our hand(s) and seal(s) the day and year set opposite my/our signature(s).

Hiroaki Nagano L.S. Date September 20, 20 00  
HIROAKI NAGANO

Kazuhiro Mori L.S. Date September 20, 20 00  
KAZUHIRO MORI

Kenji Itoh L.S. Date September 20, 20 00  
KENJI ITOH

\_\_\_\_ L.S. Date \_\_\_\_\_, 20 \_\_\_\_

\_\_\_\_ L.S. Date \_\_\_\_\_, 20 \_\_\_\_

\_\_\_\_ L.S. Date \_\_\_\_\_, 20 \_\_\_\_

\_\_\_\_ L.S. Date \_\_\_\_\_, 20 \_\_\_\_