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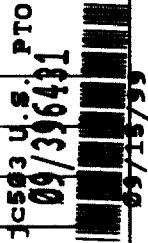
FORM 159E

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

<p>1. Name of conveying party(ies): Katsuhiko AOKI</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies): Name <u>Mitsubishi Denki Kabushiki Kaisha</u></p> <p>Internal Address: _____</p> <p>Street Address: <u>2-3, Marunouchi 2-chome</u> <u>Chiyoda-ku</u></p> <p>City <u>Tokyo</u></p> <p>Country <u>Japan</u> ZIP <u>100-8310</u></p> <p>Additional name(s) & addresses(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Name of Conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Other _____</p> <p>Execution Date: <u>August 20, 1999</u></p>	



4. Application number(s) or patent number(s): 09396431

If this document is being filed together with a new application, the execution date of the application is:
August 20, 1999

A. Patent Application No.(s) _____ B. Patent No.(s) _____

Additional numbers attached? Yes No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>Vincent M. DeLuca</u></p> <p>Internal Address: <u>Rothwell, Figg, Ernst & Kurz</u> <u>Suite 701 East</u></p> <p>Street Address: <u>555 13th Street, N.W.</u></p> <p>City: <u>Washington</u></p> <p>State: <u>D.C.</u> Zip <u>20004</u></p>	<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41): . . . \$ <u>40.00</u></p> <p><input checked="" type="checkbox"/> Enclosed</p> <p><input type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: _____</p>
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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 9/15/99
Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments and documents: 2

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, I/we KATSUHIKO AOKI, a citizen of JAPAN,
residing at 2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100, JAPAN,
First Named Inventor
Address -8310, a citizen of _____

residing at _____,
Second Named Inventor, if any
Address

residing at _____,
Third Named Inventor, if any
Address

residing at _____,
Fourth Named Inventor, if any
Address

residing at _____,
Address

ASSIGNOR(S), am/are the inventor(s) of an invention in MONOPULSE ANTENNA 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, 2-3, Marunouchi 2-chome,
Chiyoda-ku, TOKYO 100, JAPAN,
Assignee -8310 Citizenship/Corporate Situs JAPAN Address

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.

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

KATSUHIKO AOKI Katsuhiko Aoki L.S. Date August 20, 19 99

L.S. Date _____, 19 ____

L.S. Date _____, 19 ____

L.S. Date _____, 19 ____

Witness:

Name Date

Name Date