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PATENTS ONLY

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<p>1. Name of conveying party(ies): Kunio SATOMI Yasushi TAKEUCHI</p> <p><i>10-15-03</i></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: Canon Kabushiki Kaisha Address: 3-30-2, Shimomaruko, Ohto-ku Tokyo, Japan</p> <p>Additional name(s) & addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Other</p> <p>Execution Date(s): October 3, 2003</p>	<p>4. Patent Application number(s) Herewith <i>20686885</i></p> <p>Execution Date(s): October 3, 2003</p>
<p>5. Name and address of party to whom correspondence concerning document should be mailed: Name: Morgan & Finnegan LLP Address: 345 Park Avenue New York, New York 10154 Telephone 212-758-4800 Fascimile 22-751-6849</p>	<p>6. Total number of applications involved: 1</p> <p>7. Total fee (37 CFR 3.41): \$40.00</p> <p><input checked="" type="checkbox"/> A check in the amount of 40.00 is enclosed.</p> <p><input type="checkbox"/> Charge to Deposit Account No.: <u>13-4500</u>, Order No. _____.</p> <p><input checked="" type="checkbox"/> Charge any deficiencies to Deposit Account <u>13-4500</u>, Order No. <u>1232-5176</u>. (A duplicate copy of this sheet is enclosed)</p>

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October 15, 2003

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JOINT
(BEFORE APPLICATION FILED)

ASSIGNMENT OF PATENT RIGHTS FOR THE UNITED STATES

FOR VALUE RECEIVED, WE, **Kunio Satomi and Yasushi Takeuchi**

hereby sell, assign, transfer and convey unto **CANON KABUSHIKI KAISHA**

a corporation of **Japan**

having a place of business at

3-30-2, Shimomaruko, Ohta-ku, Tokyo, Japan

its successors, assigns and legal representatives (hereinafter called the "Assignee"), the entire right, title and interest, for the United States, in and to certain inventions relating to

AREA ARRAY SEMICONDUCTOR DEVICE AND ELECTRONIC CIRCUIT BOARD UTILIZING THE SAME

and described in an application for Letters Patent of the United States executed by each of us, respectively, on the date indicated below and in and to said application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted, thereon, and all reissues and extensions thereof; and we hereby authorize and request the Commissioner for Patents and Trademarks of the United States to issue all Letters Patent upon said inventions to the Assignee or to such nominees as it may designate.

AND we authorize and empower the said Assignee or nominees to invoke and claim for any application for patent or other form of protection for said inventions, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

AND we hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in the United States for any purpose and more particularly in proof of the right of said Assignee or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

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

AND we hereby covenant and agree that we will communicate to said Assignee or nominees all facts known to us pertaining to said inventions, and testify in all legal proceedings, sign all lawful papers, execute all continuing and reissue applications, make all rightful oaths and declarations and in general perform all lawful acts necessary or proper to aid said Assignee or nominees in obtaining, maintaining and enforcing all lawful patent protection for said inventions in the United States.

By: Kunio Satomi
Kunio Satomi

Date: October 3, 2003

By: Yasushi Takeuchi
Yasushi Takeuchi

Date: October 3, 2003

By: _____

Date: _____

By: _____

Date: _____

By: _____

Date: _____

By: _____

Date: _____