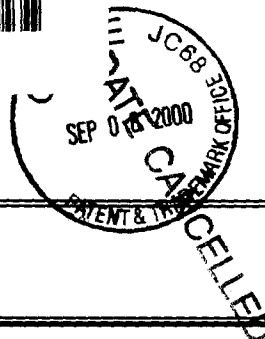
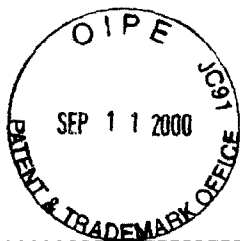


09-13-2000



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9-11-00

RECORDATION COVER SHEET
PATENTS

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

1. Name(s) of conveying party(ies):

Kensaku MOTOKI, Takuji OKAHISA and Naoki MATSUMOTO

2. Name(s) and Address(es) of receiving party(ies):

SUMITOMO ELECTRIC INDUSTRIES, LTD.
5-33, Kitahama 4-chome, Chuo-ku,
Osaka-shi, Osaka 541-0041 JAPAN

3. Nature of conveyance: Assignment
Execution Date: July 28, 2000

4A. Patent Application No.(s): 09/560,818

Application execution date :

4B. Patent No.(s):

5. Name and Address of Party to whom correspondence regarding this document should be mailed:

SMITH, GAMBRELL & RUSSELL, LLP
Beveridge, DeGrandi, Weilacher & Young
Intellectual Property Group
1850 M Street N.W. (Suite 800)
Washington, DC 20036

202 659-2811

6. Total number of applications and patents involved : one

7. Total fee: \$40.00.

(Enclosed. Please charge any deficiency or refund any excess to counsel's deposit account.)

8. Deposit account no.: 02-4300

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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.

Name of Person Signing : Michael A. Makuch, Reg. No. 32,263

Signature:

Date: September 11, 2000

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06 FC:581

40.00 DP

PATENT
REEL: 011050 FRAME: 0617

09/11/2000
RE: 09-2000

For Non-U.S. Clients

ASSIGNMENT

Whereas, I/we,

<u>Name</u>	<u>Address</u>
1) Kensaku MOTOKI	c/o Itami Works of Sumitomo Electric Industries, Ltd., 1-1, Koyakita 1-chome, Itami-shi, Hyogo 664-0016 Japan
2) Takuji OKAHISA	c/o Itami Works of Sumitomo Electric Industries, Ltd., 1-1, Koyakita 1-chome, Itami-shi, Hyogo 664-0016 Japan
3) Naoki MATSUMOTO	c/o Itami Works of Sumitomo Electric Industries, Ltd., 1-1, Koyakita 1-chome, Itami-shi, Hyogo 664-0016 Japan

hereinafter called assignor(s), have invented certain improvements in
GaN Single Crystal Substrate and Method of Making the Same

and executed an application for Letters Patent of the United States of America therefor on even date herewith unless otherwise indicated below:

filed on April 28, 2000, Serial No. 09/560818; and

Whereas

SUMITOMO ELECTRIC INDUSTRIES, LTD.
5-33, Kitahama 4-chome, Chuo-ku,
Osaka-shi, Osaka 541-0041 Japan

(assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. § 119, and I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

INVENTORS

DATE SIGNED

1): Name: <u>Kensaku Motoki</u> Kensaku MOTOKI	<u>July 28, 2000</u>
2): Name: <u>Takuji Okahisa</u> Takuji OKAHISA	<u>July 28, 2000</u>
3): Name: <u>Naoki Matsumoto</u> Naoki MATSUMOTO	<u>July 28, 2000</u>

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. § 261)