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Attorney Dkt. 2271/62289

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1. Name of conveying parties:  
Seiji SARAYAMA, Masahiko SHIMADA, Hisanori YAMANE and Hirokazu IWATA

Additional name(s) of conveying party(ies) attached?  
 Yes  No

2. Name and address of receiving party(ies):

Name: 1) Ricoh Company, Ltd.  
2) Masahiko Shimada  
3) Hisanori Yamane

Internal Address: \_\_\_\_\_

Street Address: 1) 3-6, 1-Chome Nakamagome, Ohta-Ku  
2) 3-29-5, Kaigamori, Aoba-ku, Sendai-shi  
3) 1-12-4, Tsurugatani, Miyagino-ku, Sendai-shi

City/Country 1) Tokyo 143-8555, JAPAN  
2) Miyagi, JAPAN  
3) Miyagi, JAPAN

Additional name(s) & address(es) attached?  
 Yes  No

3. Nature of Conveyance:

Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Execution Date: September 22, 2000

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

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s) S.N. 09/590,063  
filed June 8, 2000

Additional numbers attached?  Yes  No

B. Patent No.(s) UWD 10/23/00

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Ivan S. Kavrukoy, Esq.

Internal Address: \_\_\_\_\_

Street Address: Cooper & Dunham LLP  
1185 Avenue of the Americas

City: New York State: N.Y. ZIP 10036

6. Total number of applications and patents involved: 1

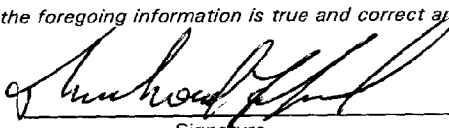
7. Total fee (37 CFR 3.41):. . . . . \$ 40  
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9. Statement and signature.

*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.*

Richard F. Jaworski, Reg. No. 33,515  Oct. 17, 2000  
Name of Person Signing Signature Date

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# Assignment

In consideration of One Dollar (\$1.00), and other good and valuable considerations, the receipt of which is hereby acknowledged, we, the undersigned,

SEIJI SARAYAMA of Miyagi, Japan,  
MASAHIKO SHIMADA of Miyagi, Japan,  
HISANORI YAMANE of Miyagi, Japan and  
HIROKAZU IWATA of Miyagi, Japan

Hereby sell, assign and transfer to \_\_\_\_\_ as per attached  
\_\_\_\_\_ a corporation of  
\_\_\_\_\_ having a place of business at

its successors, assigns and legal representatives, the entire right, title and interest for all countries, in and to any and all inventions which are disclosed and claimed, and any and all inventions which are disclosed but not claimed, in the application for United States Patent, which has been executed by the undersigned on September 22, 2000 and is entitled

PRODUCTION OF A GaN BULK CRYSTAL SUBSTRATE AND A SEMICONDUCTOR DEVICE FORMED ON A GaN BULK CRYSTAL SUBSTRATE

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for U.S. Letters Patent or other related property rights in any and all foreign countries which have been or shall be filed on any of said inventions disclosed in said application; and in and to all original and reissued patents or related foreign documents which have been or shall be issued on said inventions;

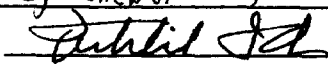
Authorize and request the Commissioner of Patents of the United States to issue to said Assignee, the corporation above named, its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said inventions or any of them disclosed in said application;

ASSIGNEES (Name and Address)

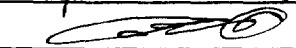
- 1) RICOH COMPANY, LTD.  
3-6, Nakamagome 1-chome, Ohta-ku,  
Tokyo 143-8555, Japan
  
- 2) MASAHIKO SHIMADA  
3-29-5, Kaigamori, Aoba-ku, Sendai-shi,  
Miyagi, Japan
  
- 3) HISANORI YAMANE  
1-12-4, Tsurugatani, Miyagino-ku, Sendai-shi,  
Miyagi, Japan

Agree that said Assignee may apply for and receive foreign Letters Patent or rights of any other kind for said inventions, or any of them; and may claim, in applications for said foreign Letters Patent or other rights, the priority of the aforesaid United States patent application under the provisions of the International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Patent Convention or under any other available international agreement; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned or the undersigned's executors or administrators will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications or other documents on any and all said inventions; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and for vesting title to said inventions and all applications for patents or related foreign rights and all patents on said inventions, in said Assignee, its successors, assigns and legal representatives; and

**Covenant** with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: September 22, 2000  
Witness: 

Seiji Sarayama [L.S.]  
SEIJI SARAYAMA

Date: September 22, 2000  
Witness: 

Masahiko Shimada [L.S.]  
MASAHIKO SHIMADA

Date: September 22, 2000

Witness: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Hisanori Yamane [L.S.]  
HISANORI YAMANE

Date: September 22, 2000

Witness: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Hirokazu Iwata [L.S.]  
HIROKAZU IWATA