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SHEET

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

Takashi UDAGAWA  
Tamotsu YAMASHITA

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

SHOWA DENKO K.K.  
13-9, Shiba Daimon 1-chome, Minato-ku, Tokyo 105-8518, JAPANAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: September 22, 2004

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

## 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)  
10/502,597B. Patent No.(s)  
Not yet assignedAdditional numbers attached? ☐ Yes ☒ No

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

SUGHRUE MION, PLLC

WASHINGTON OFFICE

23373

CUSTOMER NUMBER

## 6. Total number of applications and patents involved:

1

## 7. Total fee (37 CFR 3.41): \$40.00

- ☒ Enclosed.  
☐ Authorized to be charged to Deposit Account No. 19-4880.

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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.*

Abraham J. Rosner

Reg. No. 33,276

January 14, 2005

Date

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PATENT  
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# ASSIGNMENT

Whereas, I/we

1. Takashi UDAGAWA  
of c/o SHOWA DENKO K.K., Corporate R & D Center  
1505 Shimokagemori, Chichibu-shi, Saitama 369-1871, JAPAN
2. Tamotsu YAMASHITA  
of c/o SHOWA DENKO K.K. Corporate R & D Center,  
1-1, Ohnodai, 1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JAPAN

hereinafter called assignor(s), have invented certain improvements in

BORON PHOSPHIDE-BASED SEMICONDUCTOR DEVICE, PRODUCTION METHOD THEREOF, LIGHT-EMITTING DIODE AND BORON PHOSPHIDE-BASED SEMICONDUCTOR LAYER

and executed an application for Letters Patent of the United States of America therefor on

September 22, 2004 ; and

Whereas, SHOWA DENKO K.K.  
of 13-9, Shiba Daimon 1-chome, Minato-ku, Tokyo 105-8518, 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 Director - U.S. Patent and Trademark Office 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.

I/We hereby authorize and request my/our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3213 to insert here in parentheses (Application number 10/502,597, filed July 27, 2004 ) the filing date and application number of said application when known.

Date: September 22, 2004 s/ Takashi Udagawa  
Takashi UDAGAWA

Date: September 22, 2004 s/ Tamotsu Yamashita  
Tamotsu YAMASHITA

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