FORM PTO-1619A Expires 06/30/99 OMB 0651-0027

09-28-2000



U.S. Department of Commerce Patent and Trademark Office **PATENT**

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| Conveying F | Party(ies) | X Mark if additional name | es of conveying parties attached Execution Date Month Day Year |
| Name (line 1) | Evangellos Verkris | | 3/22/00 |
| Name (line 2) | | | |
| Second Party | | | Execution Date Month Day Yea |
| Name (line 1) | Nainesh J. Patel | | 3/22/00 |
| Name (line 2) | | | |
| Receiving Pa | arty | Mark if | additional names of receiving parties attached |
| Name (line 1) | Ball Semiconductor | | If document to be recc is an assignment and |
| Name (line 2) | | | receiving party is not domiciled in the Uniter States, an appointmen of a domestic |
| Address (line 1) | 415 Century Parkway | | representative is attac (Designation must be separate document fro |
| Address (line 2) | | | Assignment.) |
| Address (line 3) | Allen | Texas | 75013 Zip Code |
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|--|---|--|--|--|
| Corresponde | nt Name and Address | Area Code and Telephone Number | 214-651-5262 | |
| Name [| David M. O'Dell | | | |
| Address (line 1) | Haynes and Boone, LLP | | | |
| Address (line 2) | 901 Main Street | | | |
| Address (line 3) | Suite 3100 | | | |
| Address (line 4) | Dallas, Texas 75202-3789 | | | |
| Pages | Enter the total number of pagincluding any attachments. | ges of the attached conveyance docum | nent # 6 | |
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| David M. O'De | | und UNall | Date | |
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| Name (line 1) | Murali Hanabe | 3/22/00 |
| Name (line 2) | | Execution Date Month Day Year |
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| Name (line 1) | | is an assignment and the receiving party is not |
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| Name (line 1) | Evangellos Vekris | | 03/22/0 | |
| Name (line 2) | | | Execution D | |
| Second Party Name (line 1) | Nainesh J. Patel | | Month Day 03/22/0 | Yea |
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| Receiving Pa | arty | | Mark if additional names of receiving parties attach | |
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| Corresponde | nt Name and Address | Area Code and Telephone | e Number 214-651- | -55262 |
| Name [| David M. O'Dell | | | |
| Address (line 1) | Haynes and Boone, LLP | | | |
| Address (line 2) | 901 Main Street | | | |
| Address (line 3) | Suite 3100 | | | |
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ASSIGNMENT

WHEREAS, WE,

1) Evangellos Vekris of Plano State of Texas

2) Nainesh J. Patel of Plano State of Texas

3) Murali Hanabe of Plano State of Texas

have invented certain improvements in

METHOD FOR ANTIMONY AND BORON DOPING OF SPHERICAL SEMICONDUCTORS

and filed a United States patent application herewith;

WHEREAS, BALL SEMICONDUCTOR, INC., a Texas corporation having a place of business at 415 Century Parkway, Allen, Texas, 75013, (hereinafter called BALL SEMICONDUCTOR), desires to acquire the entire right, title and interest in the application and invention, and to any United States and foreign patents to be obtained therefor;

NOW, THEREFORE, for a valuable consideration, receipt whereof is hereby acknowledged, I, the above named, hereby acknowledge my prior existing obligation and hereby sell, assign, and transfer to BALL its successors and assigns, the entire right, title, and interest in the application and invention therein disclosed for the United States and foreign countries, to and under the said improvements, and the said application and all divisionals, renewals, continuing applications thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to BALL its successors and assigns; and we hereby agree that BALL may apply for foreign Letters Patent on the invention and we will execute all papers agree that BALL may apply for foreign Letters Patent on the inventions when called upon to do so by BALL.

Signed:

| | LOCATION | DATE | <u>SIGNATURE</u> |
|-----|-----------|---------|-------------------|
| (1) | Mlen 1x | 3/12/00 | Evangellos Vekris |
| (2) | Allen, TX | 3/22/00 | Nainesh J. Patel |
| (3) | Allen, TX | 3/2-100 | Murali Hanabe |

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UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

AUGUST 01, 2000

HAYNES AND BOONE, LLP DAVID M. O'DELL

901 MAIN STREET SUITE 3100

DALLAS, TEXAS 75202-3789



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RECORDATION DATE: 05/15/2000

REEL/FRAME: 010833/0737

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR''S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

VEKRIS, EVANGELLOS DOC DATE: 03/22/2000

ASSIGNOR:

PATEL, NAINESH J. DOC DATE: 03/22/2000

ASSIGNOR:

HANABLE. MURALI DOC DATE: 03/22/2000

ASSIGNEE:

BALL SEMICONDUCTOR, INC. 415 CENTURY PARKWAY ALLEN, TEXAS 75013

SERIAL NUMBER: 09490650

PATENT NUMBER: ISSUE DATE:

FILING DATE: 01/24/2000

DIANE RUSSELE, PARALEGAL ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

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