

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

09-28-2000

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



101475370

Re

**RECORDATION FORM COVER SHEET  
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TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

**Submission Type**

New 8-21-00

Resubmission (Non-Recordation)  
Document ID#

Correction of PTO Error  
Reel #  Frame #

Corrective Document  
Reel #  Frame #

**Conveyance Type**

Assignment  Security Agreement

License  Change of Name

Merger  Other

**U.S. Government**  
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Departmental File  Secret File

**Conveying Party(ies)**

Mark if additional names of conveying parties attached

Name (line 1)  Execution Date Month Day Year

Name (line 2)

**Second Party**

Name (line 1)  Execution Date Month Day Year

Name (line 2)

**Receiving Party**

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If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 1)

Name (line 2)

Address (line 1)

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Address (line 3)     
City State/Country Zip Code

**Domestic Representative Name and Address**

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

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09/27/2000 MTHAI1 00000393 09490650

01 FC:561 40.00 DP

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d631239.1

**PATENT**  
**REEL: 011109 FRAME: 0283**

**Correspondent Name and Address**

Area Code and Telephone Number

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

**Pages**

Enter the total number of pages of the attached conveyance document including any attachments. #

**Application Number(s) or Patent Number(s)**

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

**Patent Application Number(s)**

**Patent Number(s)**

<input type="text" value="09/490,650"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

**Patent Cooperation Treaty (PCT)**

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT <input type="text"/>	PCT <input type="text"/>	PCT <input type="text"/>
PCT <input type="text"/>	PCT <input type="text"/>	PCT <input type="text"/>

**Number of Properties**

Enter the total number of properties involved. #

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41): \$

Method of Payment:  
Deposit Account

Enclosed  Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number: #

Authorization to charge additional fees: Yes  No

**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. Charges to deposit account are authorized, as indicated herein.

David M. O'Dell

*David O'Dell*

*Aug. 17, 2000*

Name of Person Signing

Signature

Date

RECORDATION FORM COVER SHEET  
CONTINUATION  
PATENTS ONLY

**Conveying Party(ies)**

Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Execution Date  
Month Day Year

Name (line 1)

Name (line 2)

Execution Date  
Month Day Year

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Name (line 2)

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Name (line 1)

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Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

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Patent Number(s)

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Expires 06/30/99  
OMB 0651-0027

MKD  
5.15.04

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U.S. Department of Commerce  
Patent and Trademark Office

PATENT

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OPR/FINANCE

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License  Change of Name

Merger  Other \_\_\_\_\_

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(For Use ONLY by U.S. Government Agencies)

Departmental File  Secret File

#### Conveying Party(ies)

Mark if additional names of conveying parties attached

Execution Date  
Month Day Year

Name (line 1) Evangellos Vekris

03/22/00

Name (line 2) \_\_\_\_\_

#### Second Party

Name (line 1) Nainesh J. Patel

Execution Date  
Month Day Year  
03/22/00

Name (line 2) \_\_\_\_\_

#### Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) Ball Semiconductor, Inc.

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2) \_\_\_\_\_

Address (line 1) 415 Century Parkway

Address (line 2) \_\_\_\_\_

Address (line 3) Allen Texas 75013  
City State/Country Zip Code

#### Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name \_\_\_\_\_

Address (line 1) \_\_\_\_\_

Address (line 2) \_\_\_\_\_

Address (line 3) \_\_\_\_\_

Address (line 4) \_\_\_\_\_

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PATENT  
REEL: 011109 FRAME: 0286

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Address (line 4)

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David M. O'Dell

*David O'Dell*  
Signature

*May 9, 2000*  
Date

Name of Person Signing

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CONTINUATION  
PATENTS ONLY

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<input type="text"/>	<input type="text"/>	<input type="text"/>

**A S S I G N M E N T**

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

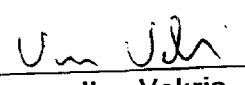
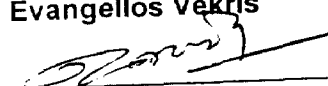

**METHOD FOR ANTIMONY AND BORON  
DOPING OF SPHERICAL SEMICONDUCTORS**

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 necessary in connection with the United States and foreign applications when called upon to do so by BALL.

Signed:

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

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**UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office**

ASSISTANT SECRETARY AND COMMISSIONER  
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Washington, D.C. 20231

AUGUST 01, 2000

PTAS



\*101378705A\*

HAYNES AND BOONE, LLP  
DAVID M. O'DELL  
901 MAIN STREET  
SUITE 3100  
DALLAS, TEXAS 75202-3789

UNITED STATES PATENT AND TRADEMARK OFFICE  
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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

FILING DATE: 01/24/2000

PATENT NUMBER:

ISSUE DATE:

**PATENT  
REEL: 011109 FRAME: 0290**



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ASSIGNMENT DIVISION  
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