



FORM PTO-1595

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Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

TingGang Zhu, Bryan S. Shelton, Marek K. Pabisz, Mark Gottfried, Linlin Liu, Milan Pophristic, Michael Murphy, Richard A. Stall

Additional name(s) of conveying party(ies) attached?

☐ yes ☒ no

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

Name: Emcore Corporation

Internal Address:

Street Address: 145 Belmont Drive

City: Somerset State/Prov.: NJ

Country: US ZIP: 08873

Additional name(s) & address(es) attached?

☐ yes ☒ no

3. Nature of Conveyance:

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

Execution Date: 12/21/2004, 12/22/2004, 12/28/2004

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

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

A Patent Application No.(s)
11/030/554Filing Date
01/06/2005

B. Patent No.(s)

Additional numbers attached: ☐ yes ☒ no

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

Name: Casey Toohey

Internal Address: Emcore Corporation

Street Address: 1600 Eubank Blvd. SE

City: Albuquerque State: NM ZIP: 87123

6. Total number of applications and patents involved: 1

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

☒ Enclosed☒ Any deficiencies in fees to be charged to deposit account 50-30290

8. Deposit account number: 50-3029 (Attach duplicate copy of this page if pay by deposit account)

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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.*Jon P. Christensen, Reg. No. 34,137
Name of Person Signing

Signature

March 25, 2005
Date

Total number of pages comprising cover sheet: 1

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Assignment

Applicant or Patentee: TingGang Zhu, Bryan S. Shelton, Mark K. Pabisz, Mark Gottfried,
Linlin Liu, Milan Pophristic, Michael Murphy, Richard A. Stall
Serial or Patent No.: 11/030,554
Filed or Issued: January 6, 2005
For: GALLIUM NITRIDE SEMICONDUCTOR DEVICE
Attorney Docket No. 4426

In Consideration of Ten Dollars and other good and valuable considerations, the receipt of which is hereby acknowledged, the entire right, title and interest in the invention and improvements of the undersigned in a

GALLIUM NITRIDE SEMICONDUCTOR DEVICE

and in the U.S. Patent and U.S. Patent Application therefor, executed by the undersigned herewith and in any reissue, continuation, or divisional U.S. Patent that may be granted upon said U.S. Patent Application are hereby assigned by the undersigned to

EMCORE Corporation

and the heirs, successors, legal representative and assigns thereof (hereinafter collectively referred to as the Assignee).

For said considerations it is hereby agreed that I have sold and assigned, and hereby do sell and assign, to said Assignee, its successors and assigns, the entire right, title and interest (a) in the above-identified invention or inventions and all improvements and modifications thereof, (b) in the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto for the above-identified invention or inventions and all improvements and modifications thereof, in all Letters Patent which may issue from said applications in the United States and countries foreign thereto, and (d) to all divisions, reissues, continuations and extensions of said applications and Letters Patents; and covenant I have the full right so to do; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all United States Letters Patent on the invention or inventions included herein to said Assignee of the entire interest.

I further agree that I shall communicate to said Assignee, its successor and assigns, or their representative or agents all facts and information known or available to me respecting said invention or inventions, improvements and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension or infringement purposes or other legal, judicial or administrative proceedings, whenever requested; testify in person or by affidavit as required by said Assignee, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; execute and deliver, on request, all lawful papers including, but not limited to, original, divisional, continuation (including any continuations-in-part) and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, declarations, depositions; and provide all reasonable assistance to Assignee, its successors and assigns, in obtaining and enforcing proper protection for said invention or inventions, improvements and modifications under the intellectual property laws of the United States and countries foreign thereto.

In testimony whereof, I have hereunto set my hand and seal, on the line set after my signature.

Name of First Joint assignor/inventor TingGang Zhu

Signature of assignor and inventor  (Seal)

Date FEB 17, 2005

Name of Second Joint assignor/inventor Bryan S. Shelton

Signature of assignor and inventor _____ (Seal)

Date _____

Name of Third Joint assignor/inventor Marek K. Pabisz

Signature of assignor and inventor _____ (Seal)

Date _____

Name of Fourth Joint assignor/inventor Mark Gottfried

Signature of assignor and inventor _____ (Seal)

Date _____

Name of Fifth Joint assignor/inventor Linlin Liu

Signature of assignor and inventor _____ (Seal)

Date _____

Name of Sixth Joint assignor/inventor Milan Pophristic

Signature of assignor and inventor _____ (Seal)

Date _____

Name of Seventh Joint assignor/inventor Michael Murphy

Signature of assignor and inventor _____ (Seal)

Date _____

Name of Eighth Joint assignor/inventor Richard A. Stall

Signature of assignor and inventor

(Seal)

Date

ASSIGNMENT

WHEREAS, Bryan^S Shelton, residing at 414 William Street, Bound Brook, NJ, citizen of the United States; Marek K. Pabisz, 261 Violet Court, Quakertown, PA, citizen of the United States; Mark Gottfried, 9 Strawberry Lane, Hillsborough, NJ citizen of United States; Linlin Liu, 50 Shire Ct., Hillsborough, NJ, citizen of China; Milan Pophristic, 62 TEE-AR Pl., Princeton, NJ 08549, citizen of Serbia and Montenegro; Michael Murphy, 1 JFK Blvd. #9J, Somerset, NJ, citizen of the United States; and Rick Stall, Belle Meade, NJ citizen of the United States (hereinafter "ASSIGNOR") are the inventors of the invention entitled **GALLIUM NITRIDE SEMICONDUCTOR DEVICES** for which we have executed an application for a Patent of the United States on even date herewith.

And WHEREAS, Emcore Corporation (hereinafter "ASSIGNEE"), a New Jersey Corporation having a business address at 145 Belmont Drive, Somerset, New Jersey 08873, is desirous of obtaining out entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in the hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I/WE, the said ASSIGNOR(s), have sold, assigned, transferred and set over, and by the presents do hereby sell, assign, transfer and set over, unto the said ASIGNEE, its successors, legal representatives and assigns, my entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country of countries foreign to the United States and all extensions, renewals and reissues thereof.

AND I/WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I/WE HEREBY covenant and agree that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I/WE HEREBY further covenant ad agree that I will communicate to the said ASSIGNEE. its successors, legal representatives and assigns, any facts known to me respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF< I hereunto set my hand and seal the day and year opposite my signature.

12/28/2004
(Date)

Bryan A. Shelton
Bryan Shelton

12/21/2004
(Date)

Marek K. Pabisz
Marek K. Pabisz

12/21/2004
(Date)

Mark Gottfried
Mark Gottfried

12/21/2004
(Date)

Liplin Liu
Liplin Liu

12/21/2004
(Date)

Milan Pophristic
Milan Pophristic

12/21/2004
(Date)

Michael Murphy
Michael Murphy

12/22/04
(Date)

Rick Stall
Rick Stall