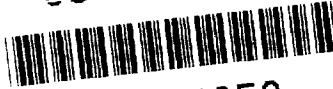


08-29-2002



102204958

Form PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002)

ET U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

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

1. Name of conveying party(ies): Ivan Eliashevich, Hari Venugopalan, Bob Karlicek, and Stanton Weaver 8.26.02 Additional name(s) of conveying party(ies) attached? [] Yes [x] No

2. Name and address of receiving party(ies) Name: Emcore Corporation Internal Address: Street Address: 145 Belmont Drive City: Somerset State: NJ Zip: 08873-1214 Additional name(s) & address(es) attached: [] Yes [x] No

3. Nature of Conveyance: [x] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: June 28, 2002; July 12, 2002; June 10, 2002; June 27, 2002; respectively

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the new application is: A. Patent Application No.(s): 10/108,292 B. Patent No.(s): Additional numbers attached? [] Yes [x] No

6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41) \$ 40.00 [] Enclosed [x] Authorized to be charged to deposit account [] Authorized to be charged to credit card (Form 2038 enclosed) 8. Deposit account number: 12-1095 (Attach duplicate copy of this page if paying by deposit account)

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Joseph J. Opalach LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP Internal Address: Street Address: 600 South Avenue West City: Westfield State: NJ Zip: 07090

DO NOT USE THIS SPACE

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. Joseph J. Opalach Name of Person Signing Signature August 19, 2002 Date Total number of pages including cover sheet, attachments, and documents: 5

08/28/2002 LMUELLER 00000147 121095 10108292 01 FC:581 40.00 CH

384262

PATENT REEL: 013222 FRAME: 0047

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

EMCORE 3.0-056

Whereas, I, Ivan Eliashevich of 185 South Orange Avenue, #10; South Orange, New Jersey 07079

hereafter referred to as assignor, have with others invented certain new and useful improvements in OPTOELECTRONIC DEVICE WITH IMPROVED LIGHT EXTRACTION

for which an application for a United States Letters Patent was filed on March 27, 2002
Application Number 10/108,292

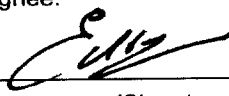
for which an application for a United States Letters Patent was executed by me on _____ and _____

Whereas, Emcore Corporation
a corporation of New Jersey herein referred to as "assignee" whose mailing address is 145 Belmont Drive; Somerset, New Jersey 08873-1214

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

6/28/02
(Date)


(Signature)

State of New Jersey) SS:
County of Somerset)

On this 28th day of June, 2002 before me personally came the above-named Ivan Eliashevich, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.

Felecia Patrice Beachum
(Notary Public)

FELECIA PATRICE BEACHUM
NOTARY PUBLIC OF NEW JERSEY
My Commission Exp. Aug. 10, 2005

*Total of 4 forms are submitted.

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

EMCORE 3.0-056

Whereas, I, Hari Venugopalan of
575 Easton Avenue, Apt. 10H; Somerset, New Jersey 08873

hereafter referred to as assignor, have with others invented certain new and useful improvements in
OPTOELECTRONIC DEVICE WITH IMPROVED LIGHT EXTRACTION

- for which an application for a United States Letters Patent was filed on March 27, 2002
 Application Number 10/108,292
- for which an application for a United States Letters Patent was executed by me on _____
 and _____

Whereas, Emcore Corporation
 a corporation of New Jersey herein referred to as "assignee" whose mailing address is
145 Belmont Drive; Somerset, New Jersey 08873-1214
 is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

7/12/02

 (Date)

[Signature]

 (Signature)

State of New Jersey) SS:
 County of Somerset)

On this 12th day of July, 2002 before me personally came the above-named Hari Venugopalan, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.

Felicia Patrice Beachum

 (Notary Public)

FELECIA PATRICE BEACHUM
 NOTARY PUBLIC OF NEW JERSEY
 My Commission Exp. Aug. 10, 2005

*Total of 4 forms are submitted.

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

EMCORE 3.0-056

Whereas, I, Bob Karlicek of 3238 Darien Lane; Twinsburg, Ohio 44087

hereafter referred to as assignor, have with others invented certain new and useful improvements in OPTOELECTRONIC DEVICE WITH IMPROVED LIGHT EXTRACTION

for which an application for a United States Letters Patent was filed on March 27, 2002
Application Number 10/108,292

for which an application for a United States Letters Patent was executed by me on _____
and _____

Whereas, Emcore Corporation
a corporation of New Jersey herein referred to as "assignee" whose mailing address is 145 Belmont Drive; Somerset, New Jersey 08873-1214
is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

June 10, 2002
(Date)

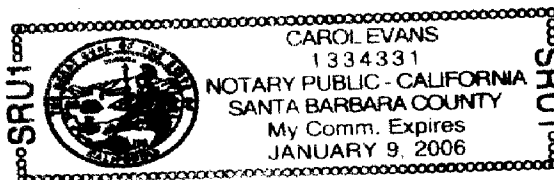
Bob Karlicek
(Signature)

State of Calif.) SS:
County of Santa Barbara)

On this 10th day of June, 2002 before me personally came the above-named Bob Karlicek, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.

Carol Evans
(Notary Public)

*Total of 4 forms are submitted.



ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

EMCORE 3.0-056

Whereas, I, Stanton Weaver of 119 Hemlock Terrace; Northville, New York 12134

hereafter referred to as assignor, have with others invented certain new and useful improvements in OPTOELECTRONIC DEVICE WITH IMPROVED LIGHT EXTRACTION

for which an application for a United States Letters Patent was filed on March 27, 2002
Application Number 10/108,292

for which an application for a United States Letters Patent was executed by me on _____
and _____

Whereas, Emcore Corporation
a corporation of New Jersey herein referred to as "assignee" whose mailing address is 145 Belmont Drive; Somerset, New Jersey 08873-1214

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

6/27/02
(Date)

Stanton Weaver
(Signature)

State of New York) SS:
County of Schenectady)

On this 27th day of June, 2002 before me personally came the above-named Stanton Weaver, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.

Alma Alexander
(Notary Public)

*Total of 4 forms are submitted.

ALMA ALEXANDER
Notary Public, State of New York
No. 6000700
Qualified in Schenectady County 2005
Commission Expires December 22, 2005