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To the Honorable Commissioner of Patents

102477901

ed original documents or copy thereof.

1. Name of conveying party(ies):

6-12-03
Eugene R. Danielson, Dr. Lyon
Mandelcorn, Stephen R. Gurkovich,
Kenneth C. Radford and
John S. Bowers

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

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

Execution Dates 14 May 2003, 27 March 2003
1 April 2003 and 2 April 2003

United States Government
as represented by
The Secretary of the Army
Washington, D.C.



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

*10459165*If this document is being filed together with a new application, the execution date of the application is: 10 June 2003

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Commander, U.S. Army Legal Services
ATTN: JALS-IP
901 North Stuart Street, Suite 700
Arlington, VA 22203-1837

6. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41).....\$ 40.00

- ☐ Enclosed
☒ Authorized to be charged to deposit account

8. Deposit account number:

19-2201

(Attach duplicate copy of this page if paying by deposit account)

06/19/2003 LUNELLER 00000025 192201 10459165

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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.

DAVID L. KUHN, Reg No 30,957

Name of Person Signing

David L. Kuhn

Signature

12

Date

Total number of pages including cover sheet, attachments, and document:

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

TA-3139

PATENT

#328

REEL: 014174 FRAME: 0250

ASSIGNMENT OF INVENTION

For use of this form, see AR 27-60; the proponent agency is OTJAG

Title of Invention: HIGH TEMPERATURE AND HIGH VOLTAGE POWER ELECTRONICS CAPACITOR
Inventor(s) Eugene R. Danielson, Dr. Lyon Mandelcorn, Stephen R. Gorkovich,
Kenneth C. Radford and John S. Bowers

* Application Serial No.: _____

* Date Oath Executed: 14 MAY 2003 * Filing Date: _____

(*Data not known at execution may be added for better identification.)

I (We), the undersigned inventor(s), in consideration of the rights of the Government of the United States acquired by virtue of the circumstances under which the above-entitled invention was made, hereby:

1. Assign to the Government of the United States, as represented by the Secretary of the Army, the entire right, title and interest throughout the United States, its Territories, Possessions, and Puerto Rico, in and to the above-entitled invention and application for patent and all Letters Patent issuing thereon, and any continuation, continuation-in-part or division of said application and any reissue or extension of said Letters Patent.

2. Agree to assign to the Government upon its request, title and interest in the invention in those foreign countries in which the Government, within eight months of the filing of the United States application for patent, determines to cause an application to be filed; provided that if the Government determines not to cause an application to be filed in any particular foreign country or fails to make such a determination, within the said eight months, all right, title and interest in the invention in such foreign country shall remain in me (us), subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent which may issue on the invention in such foreign country, including the power to issue sublicenses for use in behalf of the Government and/or furtherance of the foreign policies of the Government.

3. Agree to provide any further information within my (our) knowledge and to execute any further documents necessary to the prosecution of patent applications on the invention, the prosecution and settlement of interferences and recording of title to patent applications and patents issuing thereon.

Signature of Inventor: Eugene R Danielson
(First name) (Middle Initial) (Last name)

Duty Address: 46857 Creeks Bend, Canton, Wayne County, Michigan 48188
(Locality) (County) (State)

Date: 05/14/03 Typed Name of Inventor: EUGENE R. DANIELSON

.....

State of: MICHIGAN)
County of: MACOMB) SS

On the above date EUGENE R. DANIELSON known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that the same as his own free act and deed.

(SEAL)

Diane M. Rose

(Signature of notary public)

DYANE M ROSE
NOTARY PUBLIC MACOMB CO., MI
MY COMMISSION EXPIRES Sep 17, 2004

My Commission expires on _____

LP Rec'd
31 MAR 03

TA-3139

ASSIGNMENT OF INVENTION

For use of this form, see AR 27-60; the proponent agency is OTJAG

Title of Invention: HIGH TEMPERATURE AND HIGH VOLTAGE POWER ELECTRONICS
CAPACITOR
Inventor(s) Dr. Lyon Mandelcorn, Stephen R. Gurkovich, Kenneth C. Radford,
John S. Bowers and Eugene Danielson

*Application Serial No.: _____

*Date Oath Executed: 27 MARCH 2003 *Filing Date: _____

(*Data not known at execution may be added for better identification.)

I (We), the undersigned inventor(s), in consideration of the rights of the Government of the United States acquired by virtue of the circumstances under which the above-entitled invention was made, hereby:

1. Assign to the Government of the United States, as represented by the Secretary of the Army, the entire right, title and interest throughout the United States, its Territories, Possessions, and Puerto Rico, in and to the above-entitled invention and application for patent and all Letters Patent issuing thereon, and any continuation, continuation-in-part or division of said application and any reissue or extension of said Letters Patent.

2. Agree to assign to the Government upon its request, title and interest in the invention in those foreign countries in which the Government, within eight months of the filing of the United States application for patent, determines to cause an application to be filed; provided that if the Government determines not to cause an application to be filed in any particular foreign country or fails to make such a determination, within the said eight months, all right, title and interest in the invention in such foreign country shall remain in me (us), subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent which may issue on the invention in such foreign country, including the power to issue sublicenses for use in behalf of the Government and/or furtherance of the foreign policies of the Government.

3. Agree to provide any further information within my (our) knowledge and to execute any further documents necessary to the prosecution of patent applications on the invention, the prosecution and settlement of interferences and recording of title to patent applications and patents issuing thereon.

Signature of Inventor: Lyon Mandelcorn
(First name) (Middle Initial) (Last name)

Duty Address: 5642 BEACON ST, PITTSBURGH ALLEGHENY PA 15217
(Locality) (County) (State)

Date: March 27, 2003 Typed Name of Inventor: DR. LYON MANDELCORN

State of: PENNSYLVANIA)
County of: Allegheny) SS

On the above date and who executed the foregoing instrument duly appeared before me and acknowledged to me that the same as his own free act and deed.

(SEAL)

Mary Ann DiGiacomo
(Signature of notary public)

Notary Seal
Mary Ann DiGiacomo, Notary Public
Pittsburgh, Allegheny County
My Commission Expires Aug. 7, 2004

My Commission expires on _____
Member, Pennsylvania Association of Notaries

ASSIGNMENT

**FROM CONTRACTOR-EMPLOYEE TO CONTRACTOR
AND
FROM CONTRACTOR TO GOVERNMENT
(AMC-R 825-2)**

APPLICATION FOR: HIGH TEMPERATURE AND HIGH VOLTAGE POWER ELECTRONICS CAPACITOR
Short Title of Invention

INVENTOR(S): Stephen R. Gurkovich, Kenneth C. Radford, John S. Bowers,
Dr. Lyon Mandelcorn and Eugene Danielson

* SERIAL NO: _____ * FILING DATE: _____ DATE OATH EXECUTED: _____

CONTRACTOR: Northrop Grumman Corporation

CONTRACT NO: Prime No. MD972-97-C-0031; Purchase Order No. 3078M60003027

SUBCONTRACTOR: CUSTOM ELECTRONICS, INC.

* Data not known at execution time may be added later for better identification.

WHEREAS, under the terms of the above-identified Government contract with the United States Government, the Contractor ** agreed, inter alia, to grant to the Government certain rights under inventions and/or discoveries conceived or first actually reduced to practice in the performance of said contract; and

WHEREAS, the above-identified patent application discloses invention(s) within the purview of said rights agreed to be granted by the Contractor to the Government; and

WHEREAS, the Government desires that the assignment rights provided for by said contract in and to said invention(s) be confirmed; and

WHEREAS, under the employment contract, agreement or arrangement the Contractor-employer is entitled to an assignment in and to certain inventions made by the inventor(s) as part of his (their) duties as employee(s) of the Contractor; and

WHEREAS, the above-identified invention(s) was/were made in the performance of the above-identified contract and under such circumstances as to entitle the Government to an assignment of the entire right, title and interest in and to said invention(s) and any and all applications for Letters Patent thereon and in and to any and all Letters Patent granted on said application, subject only to a nonexclusive royalty free license to Contractor, said license to be non-transferable except to the successor of that part of the Contractor's business to which said license is appurtenant.

NOW, THEREFORE, be it known that for and in consideration of these premises and for other good and sufficient consideration, the receipt of which is hereby acknowledged, I (we), the inventor(s), do sell, assign, and transfer to the Contractor-employer the entire right, title and interest in and to said invention(s) and patent application and in and to all Letters Patent wherever they may be granted thereon, as well as divisions, continuations, reissues, and extensions of said application and Letters Patent, the same to be held and enjoyed by the said Contractor-employer to the full end of the term or terms for which Letters Patent are or may be granted, as fully and entirely as the same would have been held or enjoyed by me (us) had this assignment not been made.

**** (The terms "Contract" and "Contractor" shall include subcontract and subcontractor, if applicable, wherever they occur.)**

ASSIGNMENT (Continued)PRIME CONTRACTOR AND NUMBER: Northrop Grumman Corp., MD972-97-C-0031; P.O. 3078M60003027

SUBCONTRACTOR: _____

APPLICATION FOR: HIGH TEMPERATURE AND HIGH VOLTAGE POWER ELECTRONICS CAPACITORINVENTOR(S): Stephen R. Gurkovich and Kenneth C. Radford

SERIAL NO: _____ FILING DATE: _____

CONTRACTOR'S ASSIGNMENT

The above-identified Contractor for and in consideration of these premises and for other good and sufficient consideration, the receipt of which is hereby acknowledged, by these presents does sell, assign, and transfer to the United States Government, as represented by the Secretary of the Army and his successors in office:

ONE: The entire right, title and interest throughout the United States, its Territories, Possessions, and Puerto Rico, in and to said invention(s) and patent application and in and to any and all Letters Patent granted thereon, as well as divisions, continuations, reissues, and extensions of said application and Letters Patent, the same to be held and enjoyed by the said Government of the United States, to the full end of the term or terms for which Letters Patent are or may be granted, as fully and entirely as the same would have been held or enjoyed by the Contractor had this assignment not been made, subject only to the license, as above recited, which license extends to Contractor and to existing and future associated and affiliated companies, if any, within the corporate structure of which Contractor is a part, and which license is hereby reserved.

TWO: The entire right, title and interest, in all foreign countries, in and to said invention(s) and in and to all foreign Letters Patent, subject only to the license, as above recited, which license extends to Contractor and to existing and future associated and affiliated companies, if any, within the corporate structure of which Contractor is a part, and which license is hereby reserved.

NOTE: The Contractor may delete this paragraph TWO by crossing it out and initialing in the margin. If paragraph TWO is deleted, the following paragraph then becomes applicable and forms part of this instrument.

Contractor further grants, conveys, and confirms to the Government of the United States, as represented by the Secretary of Army and his successors in office, in consideration of the premises and other good and sufficient consideration, an irrevocable, nonexclusive, and royalty-free license to practice, and cause to be practiced by and for the Government, in all foreign countries, in the manufacture, use and disposition according to law, any article, material, or method embodied in any and all of the inventions (within the scope of the said certain rights) disclosed in the above-identified patent application, as well as in any and all Letters Patent, for the full term or terms thereof, which may eventuate from or be based thereon, the said license (1) being non-transferable, except that the Government has the right to grant sub-licenses to any foreign government or international organization specifically for use in programs established by International Agreements for research, development, or production of weapons or equipment for mutual defense, and (ii) including the practice of the licensed inventions in the manufacture, use, and disposition of any article or material, in the use of any method, or in the performance of any service acquired by or for the Government or with funds derived through the Military Assistance Program of the Government or otherwise through the Government.

ASSIGNMENT (Continued)PRIME CONTRACTOR AND NUMBER: Northrop Grumman Corp., MD972-97-C-0031; P.O.SUBCONTRACTOR: 3078M60003027APPLICATION FOR: HIGH TEMPERATURE AND HIGH VOLTAGE POWER ELECTRONICS CAPACITORINVENTOR(S): Stephen R. Gurkovich and Kenneth C. Radford

SERIAL NO: _____ FILING DATE: _____

Signed for Contractor on 3 April 2003
DAY MONTH YEAR

Signature of Officer

At Los Angeles Los Angeles California
LOCALITY COUNTY STATE

John H. Mullan

TYPED NAME

I certify that I am the ^{Assistant} ~~Secretary~~ of the above-identified Corporation; that the officer who signed this instrument on behalf of the Corporation was then Secretary of the Corporation, acting by authority of its governing body and within the scope of its corporate powers.

Signed on: 3 April 2003
DAY MONTH YEAR

Signature of Secretary

^{Assistant}Kathleen Salmas

(Corporate Seal)

Kathleen Salmas

TYPED NAME

State of California)

ss:

County of Los Angeles)On April 4, 2003
DAY MONTH YEARappeared before me John H. Mullanand Kathleen Salmas

to me well known, and known to be the

~~Officer of the Corporation~~
~~President and Secretary~~and Assistant Secretary of Northrop Grumman Corporation

(TITLE)

(TITLE)

, a corporation of Delaware

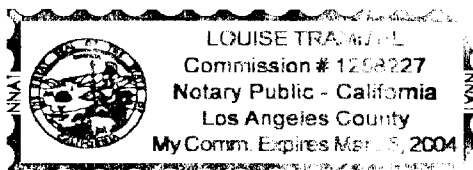
(STATE)

, and affixed their names to

the foregoing instrument in my presence, and acknowledged the same to be their and said Corporation's free

act and deed.

(SEAL)

Louise Trammel

NOTARY PUBLIC

My Commission Expires

March 25, 2004

ASSIGNMENT

**FROM CONTRACTOR-EMPLOYEE TO CONTRACTOR
AND
FROM CONTRACTOR TO GOVERNMENT
(AMC-R 825-2)**

APPLICATION FOR: HIGH TEMPERATURE AND HIGH VOLTAGE POWER ELECTRONICS CAPACITOR

Short Title of Invention

INVENTOR(S): John S. Bowers, Stephen R. Gurkovich, Kenneth C. Radford,
Dr. Lyon Mandelcorn and Eugene Danielson

* SERIAL NO: _____ * FILING DATE: _____ DATE OATH EXECUTED: _____

CONTRACTOR: NORTHROP GRUMMAN

CONTRACT NO: MDA 972-97-C-0031

SUBCONTRACTOR: CUSTOM ELECTRONICS, INC

* Data not known at execution time may be added later for better identification.

WHEREAS, under the terms of the above-identified Government contract with the United States Government, the Contractor ** agreed, inter alia, to grant to the Government certain rights under inventions and/or discoveries conceived or first actually reduced to practice in the performance of said contract; and

WHEREAS, the above-identified patent application discloses invention(s) within the purview of said rights agreed to be granted by the Contractor to the Government; and

WHEREAS, the Government desires that the assignment rights provided for by said contract in and to said invention(s) be confirmed; and

WHEREAS, under the employment contract, agreement or arrangement the Contractor-employer is entitled to an assignment in and to certain inventions made by the inventor(s) as part of his (their) duties as employee(s) of the Contractor; and

WHEREAS, the above-identified invention(s) was/were made in the performance of the above-identified contract and under such circumstances as to entitle the Government to an assignment of the entire right, title and interest in and to said invention(s) and any and all applications for Letters Patent thereon and in and to any and all Letters Patent granted on said application, subject only to a nonexclusive royalty free license to Contractor, said license to be non-transferable except to the successor of that part of the Contractor's business to which said license is appurtenant.

NOW, THEREFORE, be it known that for and in consideration of these premises and for other good and sufficient consideration, the receipt of which is hereby acknowledged, I (we), the inventor(s), do sell, assign, and transfer to the Contractor-employer the entire right, title and interest in and to said invention(s) and patent application and in and to all Letters Patent wherever they may be granted thereon, as well as divisions, continuations, reissues, and extensions of said application and Letters Patent, the same to be held and enjoyed by the said Contractor-employer to the full end of the term or terms for which Letters Patent are or may be granted, as fully and entirely as the same would have been held or enjoyed by me (us) had this assignment not been made.

** (The terms "Contract" and "Contractor" shall include subcontract and subcontractor, if applicable, wherever they occur.)

PATENT
REEL: 014174 FRAME: 0258

ASSIGNMENT (Continued)

PRIME CONTRACTOR AND NUMBER: NORTHROP GRUMMAN MDA972-97-C-0031
 SUBCONTRACTOR: CUSTOM ELECTRONICS, INC.
 APPLICATION FOR: HIGH TEMPERATURE AND HIGH VOLTAGE POWER ELECTRONICS CAPACITOR
 INVENTOR(S): John S. Bowers
 SERIAL NO: _____ FILING DATE: _____

CONTRACTOR'S ASSIGNMENT

The above-identified Contractor for and in consideration of these premises and for other good and sufficient consideration, the receipt of which is hereby acknowledged, by these presents does sell, assign, and transfer to the United States Government, as represented by the Secretary of the Army and his successors in office:

ONE: The entire right, title and interest throughout the United States, its Territories, Possessions, and Puerto Rico, in and to said invention(s) and patent application and in and to any and all Letters Patent granted thereon, as well as divisions, continuations, reissues, and extensions of said application and Letters Patent, the same to be held and enjoyed by the said Government of the United States, to the full end of the term or terms for which Letters Patent are or may be granted, as fully and entirely as the same would have been held or enjoyed by the Contractor had this assignment not been made, subject only to the license, as above recited, which license extends to Contractor and to existing and future associated and affiliated companies, if any, within the corporate structure of which Contractor is a part, and which license is hereby reserved.

TWO: The entire right, title and interest, in all foreign countries, in and to said invention(s) and in and to all foreign Letters Patent, subject only to the license, as above recited, which license extends to Contractor and to existing and future associated and affiliated companies, if any, within the corporate structure of which Contractor is a part, and which license is hereby reserved.

NOTE: The Contractor may delete this paragraph TWO by crossing it out and initialing in the margin. If paragraph TWO is deleted, the following paragraph then becomes applicable and forms part of this instrument.

Contractor further grants, conveys, and confirms to the Government of the United States, as represented by the Secretary of Army and his successors in office, in consideration of the premises and other good and sufficient consideration, an irrevocable, nonexclusive, and royalty-free license to practice, and cause to be practiced by and for the Government, in all foreign countries, in the manufacture, use and disposition according to law, any article, material, or method embodied in any and all of the inventions (within the scope of the said certain rights) disclosed in the above-identified patent application, as well as in any and all Letters Patent, for the full term or terms thereof, which may eventuate from or be based thereon, the said license (1) being non-transferable, except that the Government has the right to grant sub-licenses to any foreign government or international organization specifically for use in programs established by International Agreements for research, development, or production of weapons or equipment for mutual defense, and (ii) including the practice of the licensed inventions in the manufacture, use, and disposition of any article or material, in the use of any method, or in the performance of any service acquired by or for the Government or with funds derived through the Military Assistance Program of the Government or otherwise through the Government.

ASSIGNMENT (Continued)

PRIME CONTRACTOR AND NUMBER: NORTHROP GRUMMAN MDA972-97-C-0031
 SUBCONTRACTOR: CUSTOM ELECTRONICS, INC.
 APPLICATION FOR: HIGH TEMPERATURE AND HIGH VOLTAGE POWER ELECTRONICS CAPACITOR
 INVENTOR(S): John S. Bowers
 SERIAL NO: _____ FILING DATE: _____

Signed for Contractor on

1 APRIL 2003
DAY MONTH YEAR

Signature of Officer



At

Oneonta Otsego New York
LOCALITY COUNTY STATE

Peter S. Dokuchitz

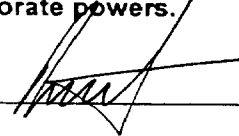
TYPED NAME

I certify that I am the Secretary of the above-identified Corporation; that the officer who signed this instrument on behalf of the Corporation was then President and CEO of the Corporation, acting by authority of its governing body and within the scope of its corporate powers.

Signed on:

1 APRIL 2003
DAY MONTH YEAR

Signature of Secretary



Peter S. Dokuchitz

TYPED NAME

(Corporate Seal)

State of New York)

ss:

County of Otsego)
 On 01 04 03
DAY MONTH YEAR
appeared before me Peter S. Dokuchitz

and

to me well known, and known to be the

President and Secretary of Custom Electronics, INC.

(TITLE)

(TITLE)

, a corporation of New York State, and affixed their names to
(STATE)

the foregoing instrument in my presence, and acknowledged the same to be their and said Corporation's free act and deed.

(SEAL)



NOTARY PUBLIC

BARBARA F. BURNHAM
 Notary Public, State of New York
 Originally qualified Otsego County
 Comm. Expires 09/12/2006

My Commission Expires