FORM <b>PTO-1595</b> (Rev. 6-93)	RECC	06-19	-2003	EET	U.S. DEPARTMENT	OF COMMERCE Trademark Office
OMB No. 0651-0011 (exp. 4/94)					Palent, and	· rademark Office
Tab settings □ □ □ ▼			-11 (4E)2 (2(1) EE(E) 1 E  (6E)			▼
To the Honorable Commission	er of Pater.	10247	7901	ed original	documents or copy	thereof.
1. Name of conveying party(ies): Eugene R. Danielson Mandelcorn, Steph Kenneth C. Rødfon John S. Bowers Additional name(s) of conveying party(ies	n, Dr. Ly nen R. Gu r <b>d</b> and	rkovich,		United State	es Government	10/459165 10/459165 10/12/03
3. Nature of conveyance:					ry of the Army	
🖾 Assignment	☐ Me	rger		Washington	, D.C.	
☐ Security Agreement	☐ Cha	ange of Name				
☐ Other						
Execution Dates 14 May 200 1 April 2003 and 2	03, 27 Ma April 20	rch 2003 03				
4. Application number(s) or pater	nt number(s):	INCIE	9165			
If this document is being filed	together with a	new application	n, the execution	date of the app	lication is: 10 Ju	ine 2003
A. Patent Application No.(s)			B. Paten	t No.(s)		
	Ad	ditional numbers at	tached? 🖸 Yes 🖄	No	and the same of th	
5. Name and address of party to concerning document should be		ondence	6. Total num	ber of application	ns and patents inv	olved: 1
			7. Total fee	(37 CFR 3.41).	<u>\$ 40.00</u>	
Commander, U.S. Army ATTN: JALS-IP	Legal Serv	ices	□ Enclo			
901 North Stuart Stre Arlington, VA 22203-		700	⊠ Autho	rized to be cha	rged to deposit ac	count
,		•	8. Deposit a	ccount number		
	)			19-2201		
06/19/2003 LINELLER 00000025 192201	19459165		(Attach dup	licate copy of this p	page if paying by depo	sit account)
01 FC:00E1 40.00 No		DO NOT US	E THIS SPACE			
<ol> <li>Statement and signature.</li> <li>To the best of my knowledge a the original document.</li> </ol>	and belief, the	foregoing inform	nation is true and	d correct and ar	ny attached copy is	s a true copy of
DAVID L. KUHN, Reg	No 30,957	( ) and	Luhn		10	in 2003
Name of Person Signing	Total number	r of pages including	Signature cover sheet, attach	ments, and docum	ent: 12	Date
Ma	il documents to	be recorded with	required cover sh	eet information t		-3139 #330

Commissioner of Patents & Trademarks, Box Assignments 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: H	GH TEMPERATURE	AND HIGH VOLT	AGE POWER ELECTRO	ONICS			
inventor(s) Eugene F	R. Danielson, Dr	. Lyon Mandel	corn, Stephen R.	Gurkovic			
*Application Serial No.: _							
*Date Oath Executed: 1	4 may 2003	*Filing Date:					
	(*Data not known at executi						
•	d inventor(s), in consideration as under which the above-ent	<del>-</del>	nment of the United States acq hereby:	uired by			
and interest throughout the and application for patent	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.						
which the Government, w application to be filed; pro foreign country or fails to in such foreign country sh in any patent which may is	ithin eight months of the filing vided that if the Government make such a determination, v all remain in me (us), subject	g of the United States appl determines not to cause a vithin the said eight month to a nonexclusive, irrevoca foreign country, including	n the invention in those foreign lication for patent, determines to a application to be filed in any pass, all right, title and interest in able, royalty-free license to the the power to issue sublicenses ment.	o cause an particular the invention Government			
necessary to the prosecut		the invention, the prosecut	d to execute any further docum tion and settlement of interferer				
Signature of Inventor:	Eligen	R	Danielson				
	Euglu (First name)	(Middle Initial)	(Last name)				
Duty Address: 46857	Creeks Bend, Ca	anton, Wayne C (County)	ounty, Michigan (State)	48188			
Date: 05/14/0	3	_ Typed Name of Invento	EUGENE R. DAN	IELSON			
	* * * * *		•				
State of: MICHIE  County of: MACO	SAU ) ss						
On the above date is and who executed the for act and deed.	.U.G.ENIE R. DAM egoing instrument duly appea	IKCSUM know red before me and acknow	vn to me to be the individual de vledged to me that the same as				
			Live M. Ros	<u></u>			
(SEAL)		lS	Signature of notary public)				
			Davie in 1995 Hotaly Public Mac Expires of in Colorssical Expire	TMB CO. NA			

DA FORM 2874-R, APR 93 REPLACES DA FORM 2874-R, MAR 74, WHICH IS OBSOLETE.

Page 1 of 1

Pages

#### **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 Inventoria) Dr. Lyon Mandelcorn, Stephen R. Gurkovich, Kenneth C. RAPACITOR John S. Bowers and Eugene Danielson  *Application Sarial No.:  *Date Oath Executed:	
Inventoric Dr. Lyon Mandel corn, Stephen R. Gurkovich, Kenneth C. Radford John S. Bowers and Eugene Danielson  *Application Serial No.:  *Date Oath Executed:	Title of Invention: HIGH TEMPERATURE AND HIGH VOLTAGE POWER ELECTRONICS
*Application Serial No.:  *Date Oath Executed:	CAPACITOR Inventor(s) Dr. Lyon Mandelcorn, Stephen R. Gurkovich, Kenneth C. Radford
(*Data not known at execution may be added for better identification.)  1 (We), the undersigned inventor(s), in consideration of the rights of the Government of the United States acquired by virture 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 Pueto 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 filling of the United States application to present, determines to cause an application to be filed in any particular foreign country. In the patent of the proceeding and the section of the filling of the United States application to be filled in any particular foreign country. In a said application to the fill and interest in the invention in such present 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 country, including the power to issue sublicenses for use in behalf of the Government and/or furtherance of the foreign policies of the Government.  Signature of Inventor:    Applications on the invention in such foreign country, including the power to issue sublicenses for use in behalf of the Government.   Government   Gov	John S. Bowers and Eugene Danielson *Application Serial No.:
I (We), the undereigned inventor(s), in consideration of the rights of the Government of the United States acquired by virture 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 Pustor 8 lice, in and to the above-entitled invention and application for patent and all Letters Patent issuing thereon, and any 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 filling of the United States 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 all right, title and interest in the invention in such foreign country will remain in me (us), subject to a newexclusive, irrevocable, royalty-free light 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:	*Date Oath Executed:
Virture 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 Ricco, in and to the above-entitled invention and application for patent and all Letters Patent issuing thereon, and any continuation-in-part or division of said papilication 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 upon its request, title and interest in the invention in those foreign countries in which the Government Government determines to cause an application to be filed; provided that if the Government determines not to cause an application to be filed; provided that if the Government determines not to cause an application to a 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 light 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:	(*Data not known at execution may be added for better identification.)
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 on the invention; the prosecution and settlement of interferences and recording of title to patent applications on the invention; the prosecution and settlement of interferences and recording of title to patent applications on the invention; the power to patent application of patent applications on the invention; the power 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.  **Country Order Patent P	
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 particular valid may patent which may issue on the invention in such foreign country, including the power 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:    Ward   Ward	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
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:    County   County   County   County   County	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
Duty Address: 5642 BEACON ST., PITTSBURGH A LIEGHENY PA GOT (County)  Date: March 27, 2003  Typed Name of Inventor: DR. LYON MANDELCORN  State of: FUNDS NAME A SS  County of: Allegheny  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)  (SEAL)  (SEAL)  (Signature of MANDELCORN  (Signature of MANDELCORN  (Signature of MANDELCORN  May Ann DiGiacomo, Notary Public Public Partsburgh, Allegheny County My Commission Expires Aug. 7, 2004	necessary to the prosecution of patent applications on the invention, the prosecution and settlement of interferences and
Duty Address: 5642 BEACON ST., PITTSBURGH A LIEGHENY PA GOT (County)  Date: March 27, 2003  Typed Name of Inventor: DR. LYON MANDELCORN  State of: FUNDS NAME A SS  County of: Allegheny  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)  (SEAL)  (SEAL)  (Signature of MANDELCORN  (Signature of MANDELCORN  (Signature of MANDELCORN  May Ann DiGiacomo, Notary Public Public Partsburgh, Allegheny County My Commission Expires Aug. 7, 2004	
Duty Address: 5642 BEACON ST., PITTSBURGH A LIEGHENY PA GOT (County)  Date: March 27, 2003  Typed Name of Inventor: DR. LYON MANDELCORN  State of: FUNDS NAME A SS  County of: Allegheny  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)  (SEAL)  (SEAL)  (Signature of MANDELCORN  (Signature of MANDELCORN  (Signature of MANDELCORN  May Ann DiGiacomo, Notary Public Public Partsburgh, Allegheny County My Commission Expires Aug. 7, 2004	Signature of Inventor: (First name) (Middle Initial) (Lest name)
State of: CNNS/VANIA  County of: Allegheny  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)  (SEAL)  (Signature of reolative public Pittsburgh, Alleghenry County My Commission Expires Aug. 7, 2004	
State of: CNNS/VANIA  County of: Allegheny  On the above date  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)  (SEAL)  (Signature of rectary public Pittsburgh, Alleghenry County My Commission Expires Aug. 7, 2004	$M_{\alpha} = 0.27.266.2$
County of: Alegheny  On the above date 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)  (Signature of Netary public Pittsburgh, Allegheny County My Commission Expires Aug. 7, 2004	Typed Name of Inventor: DR. LION MANDELCORN
County of: Alegheny  On the above date 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)  (Signature of Netary public Pittsburgh, Allegheny County My Commission Expires Aug. 7, 2004	
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)  (SEAL)  (SEAL)  (SEAL)  (Signature of notacy public Pittsburgh, Allegheny County My Commission Expires Aug. 7, 2004	
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)  (SEAL)  (SEAL)  (SEAL)  (SEAL)  (Signature of notary public Pittsburgh, Allegheny County My Commission Expires Aug. 7, 2004	County of: Allegheny
Mary Ann DiGiacomo, Notary Public Pittsburgh, Allegheny County My Commission Expires Aug. 7, 2004	and who executed the foregoing instrument duly appeared before me and acknowledged to me that the same as his own free
	Mary Ann DiGiacomo, Notary Public Pittsburgh, Allegheny County My Commission Expires Aug. 7, 2004

DA FORM 2874-R, APR 93 REPLACES DA FORM 2874-R, MAR 74, WHICH IS OBSOLETE.

Page 1 of 1

USAPPC V1.00

## **ASSIGNMENT**

# FROM CONTRACTOR-EMPLOYEE TO CONTRACTOR AND FROM CONTRACTOR TO GOVERNMENT

(AMC-R 825-2)

APPLICATION F	OR: 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 Grumm	DD MD072 07 G 0021 D 0 20500500000
SUBCONTRACTOR:	an, MD972-97-C-0031; P.O. 3078M60003027
APPLICATION FOR: HIGH TEMPERATURE AND HIGH	H VOLTAGE POWER ELECTRONICS CAPACITO
INVENTOR(S): Stephen R. Gurkovich and Ke	enneth C. Radford
SERIAL NO: F	ILING DATE:
SIGNATURE OF INVENTOR Linker *******	R Dukowih
(First Name)	(Middle Initial) (Last Name)
ADDRESS: 5381 View Point Court Carroll	·
(Locality) (County)	
DATE: 4/2/63	STEPHEN R. GURKOVICH
, ,	(Inventor's typed name)
STATE OF Maryland )	60
COUNTY OF Anne Arundel )	SS.
On the above date Stephen Gurkovic	known to me to be the
individual described in and who executed the for	regoing instrument, duly appeared before me
and acknowledged to me that he executed the sa	me as his own free act and deed
The country of the same of the	and do the first dot and dood.
(SEAL)	. 11
	Lelly Person
246 lt 18	Signature of Notary
TOO, State Mile	Oignature of Notary
My commission expi	res on Kelley L. Pierson
1/0. 0/4	Notary Public
SIGNATURE OF INVENTOR / LUNCHT	Anne Arundel County, Maryland
(First Name)	(Middle Initial) My Computation 27/06
ADDRESS: 1247 Waugh Chapel Road A.A. (Locality) (County)	Co. Maryland
11/2/02	(State) KENNETH C. RADFORD
DATE: 4/2/03	
STATE OF Maryland	(Inventor's typed name)
COUNTY OF Anne Arundel )	SS.
Anne Artifice	
1) 15	
On the above date Kenneth Radtord	
individual described in and who executed the fore	
and acknowledged to me that he executed the sai	me as his own free act and deed.
(SEAL)	Melley Parson
Marie Land Control of the Control of	10150r
	1
Hotary	Signature of Notary
My commission and	as II of Diamon
My commission expi	res on Kelley L. Pierson
My commission expi	res on <u>Kelley L. Pierson</u> Notary Public Anne Arundel County, Maryland
Motary	res on Kelley L. Pierson Notary Public

AMC FORM 1256-R-E JUL 94 Page 2 of 4

PRIME CONTRA	ACTOR AND NUMBER: Northrop Grumman Corp., MD972-97-C-0031; P.O. 3078M6000302
SUBCONTRACT	
APPLICATION F	OR: HIGH TEMPERATURE AND HIGH VOLTAGE POWER ELECTRONICS CAPACITOR
	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.

<u>NOTE</u>: 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.

Page 3 of 4

ASSIGNMENT (Continued)

ASSIGNMENT (Continued)			
PRIME CONTRACTOR AND NUM	IBER: Northrop Grumman	Corp., MD972-97-	-C-0031; P.O.
SUBCONTRACTOR:			3078M60003027
APPLICATION FOR: HIGH TE	MPERATURE AND HIGH	VOLTAGE POWER	ELECTRONICS CAPACITO
INVENTOR(S): Stephen R.	Gurkovich and Ken	neth C. Radfor	đ
SERIAL NO:	FIL	ING DATE:	
	*****	***	
Signed for Contractor on 3	April 2003 <b>s</b>	ignature of Officer	
DAY	MONTH YEAR		<i>- [//</i>
At Los Angeles Los Angel	les California	John H. Mullan	V
LOCALITY COUNTY	STATE	TYPED NA	ME
I certify that I am the Secretary	of the above-identified Cor	poration; that the office	er who signed this instrument
on behalf of the Corporation was	then <u>Secretary</u>		of the Corporation.
acting by authority of its governi	ng body and within the sco	pe of its corporate po	wers.
Signed on: 3 April 2003 DAY MONTH Y	Signature of Secretary	it Kathlees	Salmere
(Companto Cont)		Kathleen Cal	
(Corporate Seal)		<u>Kathleen Sal</u>	YPED NAME
State ofCalifornia	)		
County of Los Angeles	) ss: )		
On April 4, 2003	appeared before me	John H. Mullan	
DAY MONTH YEAR			
and Kathleen Salmas		to me well know	vn, and known to be the
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			ely, p Grumman Corporation
Rresident x and Secretary x	and Assistant Secre	tary of Northor	p Grumman Corporation
(TITLE)	(TITLE)	1 arrama	
	, a corporation of $\underline{\hspace{1cm}}^{\hspace{1cm}}$	laware	, and affixed their names to
	LOUISE TRAMITOL Commission # 1298227 Notary Public - California Los Angeles County Ay Comm. Expires Mar. 5, 2004	Jouise	and said Corporation's free
	My Commission Expires	March 25	, 2004

AMC FORM 1256-R-E JUL 94 Page 4 of 4

### **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.)

Page 1 of 4

ASSIGNMENT (Continued)			
PRIME CONTRACTOR AND NUMBER:	NORTHROP GRU	MMAN MDA 972-	97-C-0031
	CUSTOM ELECT		
APPLICATION FOR: HIGH TEMPERA			ELECTRONICS CAPACITOR
INVENTOR(S): John S. Bowers			
SERIAL NO:		ING DATE:	
CIONATURE OF INVENTOR	and and a	··· Bar	
SIGNATURE OF INVENTOR (First)	Name)	(Middle Initial)	(Last Name)
ADDRESS: 45 Beaver Street	√ Cooperstown	. Otsego Count	v. New York
(Locality)	(County)		(State)
DATE: O/ APRIL 2003		JOHN S	BOWERS
0 1-1		(Invento	or's typed name)
STATE OF 101	)	SS.	
COUNTY OF DEGO	)	30.	
$\mathcal{I}$			
On the above dateJohn_S.	Bowers	k	nown to me to be the
individual described in and who			
and acknowledged to me that he			
and acknowledged to me that we			
(SEAL)		Barbara T.	Burnham
	~	Signal	ture of Notary
			BARA F. BURNIHALE Tablic, State of New York pasified Otsego County
My C	commission expi		Explies 09/12/20/04
OLONATURE OF INVENTOR			
SIGNATURE OF INVENTOR (First I	Name)	(Middle Initial)	(Last Name)
ADDRESS:			
(Locality)	(County)		(State)
DATE:			
		(invent	or's typed name)
STATE OF		<b>SS</b> .	
COUNTY OF	)		
On the above date		, k	nown to me to be the
individual described in and who	executed the for	egoing instrumen	t, duly appeared before me 🖠
and acknowledged to me that he	e executed the sa	me as his own fre	e act and deed.
(SEAL)			
(02.12)			
		Signa	ture of Notary
		_	
My	commission exp	ires on	
			\ \ \

Page 2 of 4

NORTHROP GRUMMAN MDA972-97-C-0031	
CUSTOM ELECTRONICS, INC.	
TURE AND HIGH VOLTAGE POWER ELECTRONICS CAPACIT	OI
FILING DATE:	
<u> </u>	CUSTOM ELECTRONICS, INC. URE AND HIGH VOLTAGE POWER ELECTRONICS CAPACIT

#### **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.

Page 3 of 4

45	SIGNMENT (Continu	ied)			
AJ.	SICHMENT (COMMIT	ded)			
PRI	ME CONTRACTOR AND	NUMBER:	NORTHROP G	RUMMAN MDA972	-97-C-0031
	CONTRACTOR:			CTRONICS, INC.	
APP	LICATION FOR: HIGH	H TEMPERATU	RE AND HIG	SH VOLTAGE POWE	R ELECTRONICS CAPACITO
INVE	ENTOR(S): John S.	Bowers			
SER	IAL NO:		F	ILING DATE:	
			* * * * * *	* * * * *	1
Sign	ed for Contractor on	1 APRIL	2003	Signature of Officer	[and]
5.		DAY MONTH	YEAR		
At	Oneonta Otso	ego New	York	Peter S. Dok	uchitz
,	LOCALITY COU	YTY	STATE	TYPED	NAME
Ιc	ertify that I am the Secr	etary of the abo	ve-identified C	orporation; that the of	ficer who signed this instrument
	ehalf of the Corporatio				of the Corporation.
acti	ng by authority of its go	overning body a	nd within the s	cope of its corporate p	owers./
	/	0 - 07			
Sign	ned on: / APKIL	$\frac{200}{\text{YEAR}}$ Sign	ature of Secret	ary	ut
- 5	DAY MONTH	YEAR		,	
10	orporate Seal)			Peter S. De	okuchitz
(0,	orporate Sear			188 197	TYPED NAME
Stat	e of New York		)		
Stat	C 01		/ ) ss:		
C	nty of Otsego		,		
Cou	nty of Utsego		/		
0-	01 04	og appea		Peter S. Do	kuchitz
On		<u></u> appea	red before me		
	JAT MONTH				
and				to me well kn	own, and known to be the
	President	and	Secretary	of Cus	tom Electronics, INc.
	(ππ∟E)		(TITLE)		
		, a corp	oration of Ne	w York State	, and affixed their names to
				(STATE)	
the	foregoing instrument i	n my presence	and acknowled	ged the same to be th	eir and said Corporation's free
	Toregoing manument	ii iiiy presentee,		god the came to be the	on una sura corporation s not
act	and deed.				
				ρ.	0 = 1
	(SEAL)			Darker 7	Durchan
				<del></del>	OTARY PUBLIC
					RBARA F. BURNHAM
				Notary	Public, State of New York
		My Co	mmission Expi	res Original	iy qualified Otsego Count <b>y</b> n. Expires 09/12/20 <i>01</i> 2
1				<del></del>	-

AMC FORM 1256-R-E JUL 94

**RECORDED: 06/12/2003** 

Page 4 of 4