#### 502179526 12/31/2012

# PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

# **CONVEYING PARTY DATA**

Name	Execution Date
Dean A Evans	01/21/2009
Anatoly Gluschenko	12/08/2008
Victor Yu Reshetnyak	11/11/2008
Gary Cook	12/08/2008

# **RECEIVING PARTY DATA**

Name:	Government of the United States, as represented by the Secretary of the Air Force	
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Internal Address:	AFMCLO/JAZm Bldg. 11, Rm. D-18	
City:	Wright-Patterson, AFB	
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Postal Code:	45433	

# PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13731157

# **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	AFD 961B
NAME OF SUBMITTER:	Charles R. Figer, Jr.
	DATENT

REEL: 029545 FRAME: 0877

**PATENT** 502179526

Total Attachments: 5
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WHEREAS I, <u>Dean R. Evans</u>, while employed by the Government of the United States, made jointly with Gary Cook, Anatoly Gluschenko, and Victor Yu Reshetnyak an invention entitled <u>Nanoparticle Doped Hybrid Photorefractives</u>, described in an application for Letters Patent of the United States having Application Serial number 12/214,294, filed June 12, 2008;

WHEREAS, the conditions under which the joint invention was made are such as to entitle the Government under paragraph 1(a) of Executive Order 10096, to my entire right, title and interest therein, including foreign rights; and

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the premises and other valuable consideration, I have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto the Government of the United States, as represented by the Secretary of the Air Force, my entire right, title and interest throughout the world in and to the aforesaid joint invention described in the aforesaid application for Letters Patent of the United States, and any and all applications for patent and patents in any and all countries foreign to the United States, and all Letters Patent issuing thereon and any continuations, continuations-in-part, divisions, and reissues or extensions thereof; and all priority resulting from the filing of the aforesaid application for patent in the United States; I hereby authorize and request any official whose duty it is to issue patents to issue any patent thereon to the United States of America, as represented by the Secretary of the Air Force, and his successors, as assignee of my entire right, title and interest in and to the same, for the sole use for the full term or terms for which said patents and any continuations, continuations-in-part, divisions and reissues or extensions thereof are, or may be, granted as fully and entirely as the same would have been held by me had this Assignment not been made; and I hereby agree to execute any and all applications for Letters Patent, and to furnish all data and documents and to execute any papers which may be necessary or convenient for the preparation, filing, or prosecution of such applications, except it is understood that I shall not be subject to any out-of-pocket expense relative to such action.

		(signature of inventor)	21 <u>E</u> ,	2009 (date)
SUBSCRIBED AND A	CKNOWLEDGED before me this 21st of Charge	day of January and State of Ohio	20	008, at the
		Bruler Capu	Ł	
		AMELIA CARPE Note of My Co AMELIA ( Notary Publi My Commission E	13, 20 <b>09</b>	2009
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WHEREAS I, <u>Anatoly Gluschenko</u>, a professor of the University of Colorado at Colorado Springs, while performing work for the Government of the United States, made jointly with Gary Cook, Dean R. Evans, and Victor Yu Reshetnyak an invention entitled <u>Nanoparticle Doped Hybrid Photorefractives</u>, described in an application for Letters Patent of the United States having Application Serial number 12/214,294, filed June 12, 2008;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the premises and other valuable consideration, I have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto the Government of the United States, as represented by the Secretary of the Air Force, my entire right, title and interest throughout the world in and to the aforesaid joint invention described in the aforesaid application for Letters Patent of the United States, and any and all applications for patent and patents in any and all countries foreign to the United States, and all Letters Patent issuing thereon and any continuations, continuations-in-part, divisions, and reissues or extensions thereof, subject to the reservation by the University of Colorado of a license to which the University may be entitled under an agreement with the U.S. Government in which the invention was made; and all priority resulting from the filing of the aforesaid application for patent in the United States; I hereby authorize and request any official whose duty it is to issue patents to issue any patent thereon to the United States of America, as represented by the Secretary of the Air Force, and his successors, as assignee of my entire right, title and interest in and to the same, for the sole use for the full term or terms for which said patents and any continuations, continuations-in-part, divisions and reissues or extensions thereof are, or may be, granted as fully and entirely as the same would have been held by me had this Assignment not been made; and I hereby agree to execute any and all applications for Letters Patent, and to furnish all data and documents and to execute any papers which may be necessary or convenient for the preparation, filing, or prosecution of such applications, except it is understood that I shall not be subject to any out-of-pocket expense relative to such action.

SUBSCRIBED AND ACKNOWLEDGED before me this and day of Accember 2008, at the city of Colorado Springs in the County of Ellaso and State of Colorado.

WHEREAS I, Victor Yu Reshetnyak, a professor of the University of Kyiv, while performing work for the Government of the United States, made jointly with Gary Cook, Dean R. Evans, and Anatoly Gluschenko an invention entitled Nanoparticle Doped Hybrid Photorefractives, described in an application for Letters Patent of the United States having Application Serial number 12/214,294, filed June 12, 2008;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the premises and other valuable consideration, I have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto the Government of the United States, as represented by the Secretary of the Air Force, my entire right, title and interest throughout the world in and to the aforesald joint invention described in the aforesald application for Letters Patent of the United States, and any and all applications for patent and patents in any and all countries foreign to the United States, and all Letters Patent issuing thereon and any continuations, continuations-in-part, divisions, and reissues or extensions thereof, subject to the reservation by the University of Kyiv of a license to which the University may be entitled under an agreement with the U.S. Government in which the invention was made; and all priority resulting from the filing of the aforesaid application for patent in the United States; I hereby authorize and request any official whose duty it is to issue patents to issue any patent thereon to the United States of America, as represented by the Secretary of the Air Force, and his successors, as assignee of my entire right, title and interest in and to the same, for the sole use for the full term or terms for which said patents and any continuations, continuations-in-part, divisions and reissues or extensions thereof are, or may be, granted as fully and entirely as the same would have been held by me had this Assignment not been made; and I hereby agree to execute any and all applications for Letters Patent, and to furnish all data and documents and to execute any papers which may be necessary or convenient for the preparation, filing, or prosecution of such applications, except it is understood that I shall not be subject to any out-ofpocket expense relative to such action.

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SUB:	SCRIBED AND ACKNO	WLEDGED before me thisin the County of	48	day of
	<u> </u>			" Martgula's

Application Title:

**Nanoparticle Doped Hybrid Photorefractives** 

Inventor:

Gary Cook et al.

Contractor:

**Universal Technology Corporation** 

Contract Number:

F33615-03-D-5801

Appl. No. / Filing Date:

12/214,294 filed June 12, 2008 (Docket No. AFD 961)

The undersigned Inventor in recognition of their obligation as employee of the Contractor to assign inventions to the Contractor, and pursuant to the obligations of the Contractor to the Government of the United States under the above contract, hereby assigns to the United States of America, as represented by the Secretary of the Air Force, their entire right, title, and interest throughout the world in and to each invention disclosed and claimed in the above U.S. patent application, made jointly with <a href="Dean R. Evans">Dean R. Evans</a>, Anatoly Gluschenko, and Victor Yu Reshetnyak, and any substitution, division, or continuation of such patent application, subject to the reservation to the Contractor of any license to which the Contractor may be entitled under the above contract.

The Inventor agrees to assist the Contractor and the Government, upon request, by furnishing any available information and documents, performing all acts, and doing all things which may be reasonably necessary to prepare, file and prosecute such applications and make this assignment effective.

The Contractor joins in and agrees to this assignment and, except for the reservation of any license under the above contract, relinquishes and assigns to the United States of America as represented by the Secretary of the Air Force their entire right, title, and interest throughout the world in and to such inventions, and further agrees to furnish to the Government, upon request, any available information and documents necessary for the preparation, filing, and prosecution of such applications, for patent.

	(5)	gnatureor inventor)	(Jaie)
SUBSCRIBED AND ACKNOWLEDGED I	before me this $8t^{-1}$ day of	December	2008, at the
ty of Dayton in the Co	ounty of <u>Greene</u>	and State of Ohio	

AMELIA CARPENTED Notary Public, State of Onio My Commission Expires July 18, 2009

Page 1 of 2 pages

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FOR THE CONTRACTOR	
FOR THE CONTRACTOR	II : I Tankanlama Onganagakan
Contractor:	Universal Technology Corporation
Ву:	Clish squiscusto.
	(Signature of officer or agent)
Date:	12 October 2009  ALAN M JANISZEWSKI  VP for Materials & Manufacturing
Printed Name:	ALAN M. JANISZEWSKI
Fillited Name.	VD 1 Alterials & Manufecture
Title:	1270 North Fairfield Road
Business Address:	1270 North Fairneld Road
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RECORDED: 12/31/2012