

03-26-2003



U.S. Patent and Trademark Office

U.S. DEPARTMENT OF COMMERCE

102400452 To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. Name of conveying party(ies) 2. Name and address of receiving party(ies) The United States of America as represented by Robert L. Parkhill the Secretary of the Air Force Name: Michael S. Donley Andrew J. Vreugdenhil Internal Address: AFMCLO/JAZ Vsevolod N. Balbyshev Bldg 11, Room 100 Nature of conveyance: Street Address: 2240 B Street ☐ Merger City: Wright-Patterson AFB State: OH Zip: 45433 □ Security Agreement □ Change of Name □ Other ___ Additional name(s) & address(es) attached? ☐ Yes ☑ No Execution Date: ______1/14/03 and 1/24/03 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) 10/367,496 Additional numbers attached? ☐ Yes ☑ No Name and address of party to whom correspondence should 6. Total number of applications and patents involved: be addressed: Total fee (37 CFR 3.41)\$ 40.00 Thomas L. Kundert Name: Enclosed Internal Address: AFMCLO/JAZ Authorized to be charged to deposit account Bidg 11, Room 100 Deposit account number: Street Address: 2240 B Street City: Wright-Patterson AFB State: OH AF 01-0465 Zip: 45433 (Attach duplicate copy of this page if paying by deposit account) 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. THOMAS L. KUNDERT Name of Person Signing Total number of pages including cover sheet, attachments, and documents: 8 00000038 010465 10367496 03/26/2003 TDIAZ1 01 FC:8021 40.00 CH

> PATENT REEL: 013873 FRAME: 0692

S/N: 10/367,496 Filed: 14 Feb 03

ASSIGNMENT

WHEREAS We, Robert L. Parkhill and Michael S. Donley, while employed by the
Government of the United States, together with Andrew J. Vreugdenhil, an employee of
University of Dayton Research Institute, and Vsevolod N. Balbyshev, an employee of
Universal Technology Corporation, made an invention entitled SELF-ASSEMBLED NANO-
PHASE PARTICLE SURFACE TREATMENT FOR CORROSION PROTECTION and
described in application for Letters Patent of the United States executed by us on the
day of,2003 and the14th day of, 2003,
respectively; O

WHEREAS, the conditions under which said invention was made are such as to entitle the Government under paragraph 1(a) of Executive Order 10096, to the 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 considerations, We, Robert L. Parkhill and Michael S. Donley, 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, our 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; We 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 our 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 us had this Assignment not been made; and We 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 We shall not be subject to any out-of-pocket expense relative to such action.

Robert L. Parkhill

SUBSCRIBED AND ACKNOWLEDGED before me this 14th day of JAN, 2003, at STILLWATER, in the County of PAYNE and State of OKLAHOMA

State of OKLAHOMA

Notary Public

Expires: 11-2-2003

Comm: 99016334

Page 1 of 2

Michael S. Donley Michael S. Donley

SUBSCRIBED AND ACKNOWLEDGED before me this day of and 2003, at Wright-Patterson AFB, in the County of Montgomery and State of Ohio.

Notary Public

(SEAL)

S/N; 10/367,496 Filed: 14 Feb 03

ASSIGNMENT

Application Title:	SELF-ASSEMBLED NANO-PHASE PARTICLE SURFACE TREATMENT FOR CORROSION PROTECTION
Inventor(s):	Andrew J. Vreugdenhil
Date Inventor(s) Signed	
Declaration:	24th January, 2003
Contractor's Name:	UDRI J
Contract Number:	F33615-96-D-5052
Contractor's Docket No.:	
Air Force Docket No.:	AFD543

The undersigned Inventor in recognition of his obligation as an 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 assign to the United States of America, as represented by the Secretary of the Air Force, his 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 Robert L. Parkhill and Michael S. Donley, employees of the United States Government, and any substitution, division, continuation-in-part, 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 its 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.

Andrew J. Vreugdenhil

, in the County o

Notary Public

FOR THE CONTRACTOR

contractor	JDRI ,
	Cont My
rinted Name	(Signature of Officer or Agent) Gordon A. Sargent, Ph.D.
ate	
itle	& Research and Dean of the Graduat
usiness	300 College Park Dayton OH 45469-0102
an, Ph.D.	, certify that I am the
itle usiness : ddress	Vice President for Graduate Stu Research and Dean of the Grad School BOO College Park Dayton OH 45469-0102

(Signature of Secretary or certifying official)

S/N: 10/367,496 Filed: 14 Feb 03

ASSIGNMENT

Application Title: SELF-ASSEMBLED NANO-PHASE PARTICLE SURFACE TREATMENT FOR CORROSION PROTECTION

Inventor(s):

Date Inventor(s) Signed

Declaration:

January 14, 2003

Vsevolod N. Balbyshev

Contractor's Name:

Universal Technology Corporation

Contract Number:

F33615-97-D-5009

Contractor's Docket No.: Air Force Docket No.:

AFD543

The undersigned Inventor in recognition of his obligation as an 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 assign to the United States of America, as represented by the Secretary of the Air Force, his 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 Robert L. Parkhill and Michael S. Donley, employees of the United States Government, and any substitution, division, continuation-inpart, 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 its 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.

V. Balbyshev
Vsevolod N. Balbyshev

SUBSCRIBED AND ACKNOWLEDGED before me this ______ day of _______ 2003, at Wright-Patterson AFB, in the County of Montgomery and State of Ohio.

(seal)

LINDA L. BIGL, Notary Public In and For the State of Ohio My Commission Expires May 26, 2003

FOR THE CONTRACTOR

Contractor	Universal Technology Corporation			
Ву	Petrick J. Hampen			
Printed Name	(Signature of Officer or Agent)			
Date	February 28, 2003			
Title	Executive Vice President			
Business Address	1270 North Fairfield Road Dayton OH 45432-2600			
1, Lyle W. Lockword	, certify that I am the			
	corporation named as Contractor herein; that			
PATRICE), ADAMSON				
behalf of the Contractor was the Execute Vice President of said corporation;				
that said assignment was duly signed for and on behalf of said corporation by authority of its				
governing body, and is within the scope of its corporate powers.				
	Lylew Lockwood			
	(Signature of Secretary or certifying official)			

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PATENT REEL: 013873 FRAME: 0698

RECORDED: 03/19/2003