

Form PTO-1595 (Rev. 09/04)
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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.	
1. Name of conveying party(ies)/Execution Date(s): 1) Pooran C. Joshi 2) Melanie W. Cole 3) Eric H. Ngo Execution Date(s) <u>16/8/00 24/2/05 3) 4/21/05</u> Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No	2. Name and address of receiving party(ies) Name: <u>United States of America</u> Internal Address: <u>as Represented by the</u> <u>Secretary of the Army</u> Street Address: _____ City: <u>Washington</u> State: <u>DC</u> Country: <u>U.S.A.</u> Zip: <u>20310</u> Additional name(s) & address(es) attached? ☐ Yes ☒ No
3. Nature of conveyance: ☒ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Government Interest Assignment ☐ Executive Order 9424, Confirmatory License ☐ Other _____	4. Application or patent number(s): ☐ This document is being filed together with a new application. A. Patent Application No.(s) <u>10/661,547</u> B. Patent No.(s) Additional numbers attached? ☐ Yes ☒ No
5. Name and address to whom correspondence concerning document should be mailed: Name: <u>U.S. Army Research Laboratory</u> Internal Address: <u>AMSRD-ARL-O-CC-IP</u> <u>(C.Bourget)</u> Street Address: <u>2800 Powder Mill Road</u> City: <u>Adelphi</u> State: <u>Maryland</u> Zip: <u>20783-1197</u> Phone Number: <u>(301) 394-3790</u> Fax Number: <u>(301) 394-3972</u> Email Address: <u>CBOURGET@ARL.ARMY.MIL</u>	6. Total number of applications and patents Involved: <u>1</u> 7. Total fee (37 CFR 1.21(h) & 3.41) \$ <u>40</u> ☐ Authorized to be charged by credit card ☒ Authorized to be charged to deposit account ☐ Enclosed ☐ None required (government interest not affecting title) 8. Payment Information a. Credit Card Last 4 Numbers _____ Expiration Date _____ b. Deposit Account Number <u>19-2201</u> Authorized User Name <u>Army Materiel Cmd</u>
9. Signature: <u></u> 5 May 2005 Signature Date WILLIAM V. ADAMS, Reg. No. 32,552 Name of Person Signing Total number of pages including cover sheet, attachments, and documents: <u>3</u>	

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

CH \$40.00 192201 10661647

ARL 00-34A

ASSIGNMENT OF INVENTION

For use of this form, see AR 27-00; the proposed agency is OTJAS

Title of Invention: Fabrication of Pure and Modified Ta2O5 Thin Film with Enhanced Properties for Microwave Communication, Dynamic Random Access Memory and Integrated Electronic Applications

Inventor(s): Pooran C. Joshi, Melanie Cole and Eric Ngo

***Application Serial No.:** 10/661,547

***Date First Executed:** 7/26/01 ***Filing Date:** 09/15/2003

(*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, continuations-in-part or division of said application and any future 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 policy 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 termination of interference and recording of title to patent applications and process issuing thereon.

Signature of Inventor:

Pooran C. Joshi

POORAN C

JOSHI

(First name)

(Middle initial)

(Last name)

Duty Address: US ARL AMSRL-WM-MD, Aberdeen Proving Ground, Harford, MD 21005

(Locality)

(Country)

(State)

Date: 6/8/00 **Typed Name of Inventor:** Pooran C. Joshi

State of Maryland **SS.**
County of Cecil

On this above date Pooran C. Joshi 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)

David C. Anderson

(Signature of notary public)

My Commission expires on 6/10/01

SUPPLEMENTAL SIGNATURE SHEET	
For use of this form, see AR 27-60; the proponent agency is OTJAG	
Use this form with DA Forms 2873-R and 2874-R when additional signature blocks are needed.	
1. ASSIGNOR(s) OR LICENSOR(s) NAME(s) Pooran C. Joshi, Melanie W. Cole and Eric H. Ngo	2. APPLICATION SERIAL NUMBER 10/661,547 ARL 00-34A
3. FILING DATE 9/15/03	
4. TITLE OF INVENTION Fabrication of Pure and Modified Ta205 Thin Film with Enhanced properties for Microwave Communication, Dynamic Random Access Memory and Integrated Electronic Applications	
SIGNATURE OF INVENTOR: <u>Melanie W. Cole</u> (First name) (Middle initial) (Last name)	
DUTY ADDRESS: <u>US ARL, AMRD-ARL-WM-MA, Aberdeen Proving Ground, Harford, MD 21005-5055</u>	
DATE SIGNED: <u>April 21, 2005</u> INVENTOR'S TYPED NAME: <u>Melanie W. Cole</u> *****	
STATE OF <u>Maryland</u> } SS. COUNTY OF <u>Cecil</u>	
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 he executed the same as his own free act and deed.	
(SEAL)	<u>Dawn E. Gordon</u> (Signature of notary)
My Commission expires on <u>01/01/09</u>	
SIGNATURE OF INVENTOR: <u>Eric Ngo</u> (First name) (Middle initial) (Last name)	
DUTY ADDRESS: <u>US ARL, AMRD-ARL-WM-MA, Aberdeen Proving Ground, Harford, MD 21005-5055</u>	
DATE SIGNED: <u>4/21/05</u> INVENTOR'S TYPED NAME: <u>Eric H. Ngo</u> *****	
STATE OF <u>Maryland</u> } SS. COUNTY OF <u>Cecil</u>	
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 he executed the same as his own free act and deed.	
(SEAL)	<u>Dawn E. Gordon</u> (Signature of notary)
My Commission expires on <u>01/01/09</u>	