60
N
3

Form PTO-1595 (Rev. 03-09)	
OMB No. 0651-0027 (exp. 03/31/2009)	08-13-2
	- -

08-1	3	-2	00)9
------	---	----	----	----

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

_

To the Director of the U.S. Patent and 103570632 attached documents or the new address(es) below.				
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)			
	Name: NAVY, SECRETARY OF THE, UNITESD STATES			
RESEACH TRIANGLE INSTITUTE	Internal Address: OF AMERICA			
	OFFICE OF NAVAL RESEARCH			
Additional name(s) of conveying party(ies) attached? Yes X No				
3. Nature of conveyance/Execution Date(s):	Street Address: 875 NORTH RANDOLPH STREET			
Execution Date(s) 12/22/08 Assignment Merger				
	City:ARLINGTON			
Security Agreement Change of Name				
Joint Research Agreement Government Interest Assignment	State: VA			
Executive Order 9424, Confirmatory License	Country: USA Zip: 22203-1995			
Other				
	Additional name(s) & address(es) attached? Yes X No			
4. Application or patent number(s): A. Patent Application No.(s)	document is being filed together with a new application. B. Patent No.(s)			
A. I dent Application No.(3)	D. Faterit No.(5)			
10/970,378	515 12			
Additional numbers attached? Yes No				
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:			
Name: CAROL PETROSKY				
Internal Address: OFFICE OF NAVAL RESEARCH	7. Total fee (37 CFR 1.21(h) & 3.41) \$			
OFFICE OF COUNSEL	Authorized to be charged to deposit account			
Ctroot Addrocc: 075 NODTH BANDOLDH STREET	Enclosed			
Street Address: 875 NORTH RANDOLPH STREET	☐ Enclosed☐ None required (government interest not affecting title)			
City: ARLINGTON	None required (government interest not affecting title)			
City: ARLINGTON State: VA Zip: 22203-1995	None required (government interest not affecting title)			
City: ARLINGTON State: VA Zip: 22203-1995 Phone Number: 703/699-4008	None required (government interest not affecting title)			
City: ARLINGTON State: VA Zip: 22203-1995	None required (government interest not affecting title) 8. Payment Information			
City: ARLINGTON State: VA Zip: 22203-1995 Phone Number: 703/699-4008 Fax Number: 703-696-6909 Email Address: carol.petrosky@navy.mil	None required (government interest not affecting title) 8. Payment Information Deposit Account Number Authorized User Name			
City:ARLINGTON State:VA	None required (government interest not affecting title) 8. Payment Information Deposit Account Number Authorized User Name 07/24/09			
City: ARLINGTON State: VA Zip: 22203-1995 Phone Number: 703/699-4008 Fax Number: 703-696-6909 Email Address: carol.petrosky@navy.mil	None required (government interest not affecting title) 8. Payment Information Deposit Account Number Authorized User Name			

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

PATENT REEL: 023084 FRAME: 0011

CONFIRMATORY INSTRUMENT

APPLICATION FOR (TITLE OF INVENTION) Thin-film thermoelectric devices for hot-spot thermal management in microprocessors and other				
electronics	management in microprocessors and owns.			
INVENTORS(S)				
Rama Venkatasubramanian, Randall G. Alley, Patrin	na Addepalli, Anil J. Reddy, Edward P. Silvola,			
Brooks C. O'Quinn, Kip D. Coonley, John Posthill an	d Thomas Colpitts			
SERIAL NO.	FILING DATE			
10/970,378	22 Oct 2004			
CONTRACTOR/GRANTEE	CONTRACT NO.			
Research Triangle Institute	N00014-97-C-0211			
The Invention identified above is a "Subject Invention" under Pate the Contractor (Short Form) (Jun 1997) in N00014-97-C-0211 with	ent Rights Clause of FAR 52,227-11 Patent Rights - Retention by the Office of Naval Research.			
This document confirms the paid-up license granted to the government under this contract in this invention, patent application, and any resulting patent, and all other rights acquired by the government through the referenced clause.				
The government is hereby granted an irrevocable power to inspec	ct and make copies of the above-identified patent application.			
Signed this ZZnd day of December, 20 d	08 RESEARCH TRIANGLE INSTITUTE			
	CONTRACTOR			
ATTEST:				
(Seal)	BY: CONTHACTOR'S OFFICIAL AND TITLE Sr. VP Geneval Course			
	3040 Cornwall's Road RTP, NC 27709 BUSINESS ADDRESS			

PATENT REEL: 023084 FRAME: 0012

RECORDED: 08/12/2009