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FORM PTO-1595 MM 33 3 W RI 03-09-2	SHEET U.S. DEPARTMENT OF COMMER Patent and Trademark Of
OMB No. 0651-0011 (exp. 4/94)	r atent and trademark Of
Tab settings □□□□▼ 101285	393
To the Honorable Commissioner of Patents and Trademarks:	Please record the attached original documents or copy thereof.
 Name of conveying party(ies): Henry F. Gray (deceas Jianping Yang David S.Y. Hsu 	Name: The United States of America as
Banahalli R. Ratna Syed B. Qadri Additional name(s) of conveying party(les) attached? D Yes M No	represented by the Secretary of the Navy. Internal Address: CHIEF OF NAVAL RESEARCH OFFICE OF COUNSEL
3. Nature of conveyance:	(ATTN: CODE OOCCIP)
☑ Assignment □ Merger	Street ddress: BALLSTON TOWER ONE
☐ Security Agreement ☐ Change of Name	800 NORTH QUINCY STREET
☐ Other	City: ARLINGTON State: VA ZIP:22217
Execution Date:	Additional name(s) & address(es) attached? Yes No ~
4. Application number(s) or patent number(s):	
If this document is being filed together with a new application	on, the execution date of the application is:
A. Patent Application No.(s)	B. Patent No.(s)
U.S. 08/972,402 filed 11/18/97	
Additional numbers a	ttached? ☐ Yes ⊠ No
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name: ASSOCIATE COUNSEL (PATENTS)	7. Total fee (37 CFR 3.41)\$_40.00
Internal Address: NAVAL RESEARCH LABORATORY	⊠ Enclosed
(ATTN: CODE 1 008.2)	☐ Authorized to be charged to deposit account
Street Address: 4555 OVERLOOK AVENUE, S.W.	8. Deposit account number: 50-0281
City: WASHINGTON, DC State: ZIP: 20375	(Attach duplicate copy of this page if paying by deposit account)
DO NOT US	E THIS SPACE
9. Statement and signature. To the best of my knowledge and belief, the foregoing informathe original document. Barry A. Edelberg	nation is true and correct and any attached copy is a true copy of

Total number of pages including cover sheet, attachments, and document:

Reg. No. 31012 Name of Person Signing

Navy Case No. 78,815 Page 2 of 2

ASSIGNMENT

WHEREAS, I(we), Henry F. Gray (deceased) of Alexandria, Virginia, David S.Y. Hsu of Alexandria, Virginia, Banahalli R. Ratna of Woodbridge, Virginia, and Syed B. Qadri of Fairfax Station, Virginia, while employed by the Government of the United States, have invented certain new and useful improvements in NANOPARTICLE PHOSPHORS MANUFACTURED USING THE BICONTINUOUS CUBIC PHASE PROCESS, identified as Navy Case No. 78,815 and described in an application for Letters Patent of the United States of America (U.S. Application No. 08/972,402 filed on November 18, 1997) executed by me(us) on
WHEREAS, the Government of the United States, represented by the Secretary of the Navy and hereinafter referred to as the Government, is desirous of acquiring an assignment of the invention disclosed in said application and other rights and benefits herein granted; and
WHEREAS, the conditions under which the 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
WHEREAS, as to foreign rights, it is the policy of the Government to obtain an option to exercise such rights;
NOW, THEREFORE, in consideration of the premises and other good and valuable consideration the receipt of which is hereby acknowledged, I(we) hereby assign and transfer to the Government the entire right, title and interest in and to said invention within the United States of America, its territories and possessions, and the entire right, title and interest in and to said application and any continuation, division, or substitution thereof, and such Letters Patent as may issue therefrom and any reissue or extensions thereof, said invention, application and Letters Patent to be held by the Government to the end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me(us) had this assignment not been made.
I(We) do hereby also grant unto the Government, the option to take the entire right, title and interest in the invention and all patent applications or other forms of protection thereon in all countries foreign to the United States in which the Government may file, or cause to be filed, applications for Letters Patent or other forms of protection, without payment of any consideration; provided, however, that this grant of an option to take foreign rights in the invention, or applications or other forms of protection thereon, shall have force and effect only as to such applications filed in foreign countries within eight months of the filing date of any application for United States Letters Patent covering the invention, or within eight months from the declassification of the invention, whichever is later, and that all foreign rights not exercised under the option are left to me(us) subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on said invention in any foreign country, including the power to issue sub-licenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.
I(We) hereby further agree to make, execute, and deliver to the Government, any and all papers, documents, affidavits, statements, or other instruments that may be necessary in the prosecution of the application and of any continuation, division or substitution of the application, or any application for reissue or extension of said Letters Patent, and to assist the Government in every way in protecting the invention as may be requested, provided that any expense arising through such efforts will be paid by the Government.
N TESTIMONY WHEREOF, I(we) have set my(our) hand(s) and affixed my(our) seal(s).
Date:
Date: Seal David S.Y. Hsu

PATENT REEL: 010592 FRAME: 0412

Navy Case No. 78,815 Page 2 of 2

Date:		Seal
	Banahalli R. Ratna	
Date:		Seal
	Sved B. Oadri	

PATENT REEL: 010592 FRAME: 0413

ASSIGNMENT

WHEREAS, I(we), Henry F. Gray (deceased) of Alexandria, Virginia, David S.Y. Hsu of Alexandria, Virgin	ηia,
Banahalli R. Ratna of Woodbridge, Virginia, and Syed B. Qadri of Fairfax Station, Virginia, while employed by t	the
Government of the United States, have invented certain new and useful improvements in NANOPARTIC	;LE
PHOSPHORS MANUFACTURED USING THE BICONTINUOUS CUBIC PHASE PROCESS, identified as Na	avy
Case No. 78,815 and described in an application for Letters Patent of the United States of America (U	J.S.
Application No. 08/972,402 filed on November 18, 1997) executed by me(us)	on
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WHEREAS, the Government of the United States, represented by the Secretary of the Navy and hereinafter referred to as the Government, is desirous of acquiring an assignment of the invention disclosed in said application and other rights and benefits herein granted; and

WHEREAS, the conditions under which the 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

WHEREAS, as to foreign rights, it is the policy of the Government to obtain an option to exercise such rights;

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration the receipt of which is hereby acknowledged, I(we) hereby assign and transfer to the Government the entire right, title and interest in and to said invention within the United States of America, its territories and possessions, and the entire right, title and interest in and to said application and any continuation, division, or substitution thereof, and such Letters Patent as may issue therefrom and any reissue or extensions thereof, said invention, application and Letters Patent to be held by the Government to the end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me(us) had this assignment not been made.

I(We) do hereby also grant unto the Government, the option to take the entire right, title and interest in the invention and all patent applications or other forms of protection thereon in all countries foreign to the United States in which the Government may file, or cause to be filed, applications for Letters Patent or other forms of protection, without payment of any consideration; provided, however, that this grant of an option to take foreign rights in the invention, or applications or other forms of protection thereon, shall have force and effect only as to such applications filed in foreign countries within eight months of the filing date of any application for United States Letters Patent covering the invention, or within eight months from the declassification of the invention, whichever is later, and that all foreign rights not exercised under the option are left to me(us) subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on said invention in any foreign country, including the power to issue sub-licenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.

I(We) hereby further agree to make, execute, and deliver to the Government, any and all papers, documents, affidavits, statements, or other instruments that may be necessary in the prosecution of the application and of any continuation, division or substitution of the application, or any application for reissue or extension of said Letters Patent, and to assist the Government in every way in protecting the invention as may be requested, provided that any expense arising through such efforts will be paid by the Government.

IN TESTIMONY WHEREOF, I(we) have set my(our) hand(s) and affixed my(our) seal(s).

Date:		Sea
	Joan Gray, Executor for Henry F. Gray (deceased)	-
Date: 1/13/2000	David S. J. Han	Sea
	David S.Y. Hsu	

Navy Case No. 78,815 Page 2 of 2

Date: 1 14 2000

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Banahalli R. Ratna

Syed B Gadn' Seal

Syed B. Qadri

PATENT REEL: 010592 FRAME: 0415

Assignment

Inventor(s) (Name)	IEACTURED HISTNG '		
Inventor(s) (Name)	JERCIUKED COINC	THE BICONTINUOUS CUBIC PHASE PRO	CESS
T. Cray (Deceased)	Contractor		
Henry F. Gray (Deceased)	Georgetown	University	
Jianping Yang	Contract No.	J Government Agency	
David S.Y. Hsu Banahalli R. Ratna	N00014-93-C-	NRL NRL	
Bananalli k. Katha Syed B. Qadri	!		
Syed D. Qadii	Contractor Invention De	cket No. Agecncy Docket No.	
	Í	78,815	
	Date Executed	Serial No	
		08/972,402 11/18/97	
ontractor to assign inventions to the overnment under the above contract, h onexclusive and royalty-free license	 Contractor, and pursue hereby assigns (assign) which is hereby reservationed in 	(their) obligation as employee(s) of the sant to the obligation of the Contractor to to the United States of America, subject to the Contractor, all rights, title and the above U.S. patent application and any for	
ffiliated companies, if any within the saignable to the successor of that pa	e corporate structure rt of the Contractor's	to all existing and future associated and of which the Contractor is a part and shall business to which such invention pertains.	
The Inventor(s) further agrees y furnishing any available information ay be reasonably necessary to make th	n and documents, and b	: Contractor, and the Government, upon reque- y performing all acts and doing all things w	st, hich
The Contractor inine in and an	arees to the foremoing	assignment, and except for the above reserve	ation.
f a license relinquishes and assigns	all right, title and i	nterest in and to such invention, and furthe	r
		est, any available information and documents ation for patent (including prosecution and	
ettlement of interferences), and any s	substitution, division	, continuation-in-paset, or continuation of	
atent application and any application	for reissue of any pa	tent resulting from such patent application.	
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Date		Inventor	
Date		Jianping Yang	
⁷ Date		Jianping Yang	
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⁷ Date Date		Jianping Yang	
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Date	y of February 20	Inventor Inventor Georgetown University William J. Hartman, Director	- ·
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Date	y of February It	Inventor Inventor Georgetown University William J. Hartman, Director Contractor	

RECORDED: 03/03/2000

REEL: 010592 FRAME: 0416