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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT				
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT				
CONVEYING PARTY	Y DATA						
		Execution Date					
Harish M. Manohara	1	08/01/2005					
Michael H. Bronikow	/ski	08/01/2005					
RECEIVING PARTY	DATA						
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City:	Pasadena	Pasadena					
State/Country:	CALIFORNIA	CALIFORNIA					
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Application Number	:	11137725					
Property Type Application Number: 111		Number 1137725					
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Total Attachments: 4							
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			PATENT				

## ASSIGNMENT

WHEREAS, WE, Harish M. Manohara and Michael J. Bronikowski, residing at 642 West Huntington Drive, Unit 15, Arcadia, California 91007 and 689 E. Woodbury Road, Altadena, California 91001; respectively, have invented certain new and useful improvements disclosed in an application for United States Letters Patent entitled CARBON NANOTUBE HIGH-CURRENT-DENSITY FIELD EMITTER, filed May 24, 2005, Application No. 11/137,725 and with claim to the priority of United States Provisional Application No. 60/575,043, filed May 27, 2004; and

WHEREAS CALIFORNIA INSTITUTE OF TECHNOLOGY, a California nonprofit organization, having a place of business at 1200 East California Blvd., Mail Stop 201-85, Pasadena, California 91125 (hereafter, together with any successors, legal representatives or assigns thereof, called "ASSIGNEE") wants to acquire the entire right, title and interest in and to said improvements and application.

**NOW, THEREFORE**, in consideration of the sum of Ten Dollars (\$10.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we do hereby sell, assign, transfer and set over to **ASSIGNEE**:

- (i) the entire right, title and interest in and to U.S. Patent Application No. 11/137,725 and all continuations, divisions, reexaminations, reissues, substitutes, extensions and counterparts thereof throughout the world, and all inventions disclosed and claimed therein; and
- (ii) any and all claims and demands that I may have against any firm, person or corporation which has heretofore infringed upon my right in said U.S. Patent Application No. 11/137,725, together with the right to retain for ASSIGNEE any and all sums that ASSIGNEE may obtain or recover as a result of the assertion or enforcement of any such claim or demand.

WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith; and

WE HEREBY further covenant and agree that we will communicate to ASSIGNEE any and all facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, reexamination, reissue, substitute and foreign counterpart applications, make all rightful oaths and generally do everything possible to aid ASSIGNEE to obtain and enforce proper patent protection for said improvements in all countries.

PATENT REEL: 016478 FRAME: 0979

IN TESTIMONY WHEREOF, I hereunto set my hand this \_\_\_\_\_ day of \_\_\_\_\_ AUGUST\_ 2005, 2005.

Harish M. Manohara

STATE OF (alternia) COUNTY OF Los Angeles)

On <u>August 1, 2005</u>, before me <u>Karen L. McLaughlin</u>, Notary Public, personally appeared Harish M. Manohara, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he same in his/ber authorized capacity, and that by his/ser signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.



WITNESS my hand and official seal.

Karen L. MLaughlin Signature of Notary

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IN TESTIMONY WHEREOF, I hereunto set my hand this  $1^{57}$  day of <u>August</u> 2005, 2005. <u>Michael A. Browkowski</u>

STATE OF California ) COUNTY OF Los Argeles )

On <u>August 1, 2005</u>, before me <u>Karen L McLaughlin</u>, Notary Public, personally appeared Michael J. Bronikowski, personally known to the (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he she executed the same in his ber authorized capacity, and that by his/ber signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.



WITNESS my hand and official seal.

Karen & Mlaughlin Signature of Notary

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PATENT REEL: 016478 FRAME: 0980

## POWER OF ATTORNEY FROM ASSIGNEE

## Docket No.: 54831/JWP/C766

USSN 11/137,725

PATENT

CALIFORNIA INSTITUTE OF TECHNOLOGY, a California non-profit organization, having a place of business at 1200 East California Blvd., Mail Stop 201-85, Pasadena, California 91125, (Assignee) is assignee of the entire right, title and interest throughout the world, by reason of an Assignment to the Assignee executed on August 1, 2005 of an invention known as CARBON NANOTUBE HIGH-CURRENT-DENSITY FIELD EMITTER (Attorney Docket No. 54831/JWP/C766), which is disclosed and claimed in a patent application of the same title by the inventors HARISH M. MANOHARA and MICHAEL J. BRONIKOWSKI (said application executed on August 1, 2005). The Assignment of this application to California Institute of Technology is being submitted for recordation concurrently with this Power of Attorney.

The Assignee hereby appoints the U.S. attorneys associated with **CUSTOMER NUMBER 23363** as principal attorneys with the power to appoint associate attorneys to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith, such attorneys currently being:

D. Bruce Prout	(20,958)	Robert A. Green	(28,301)	Stephen D. Burbach	(40,285)
Richard J. Ward, Jr.	(24,187)	Richard A. Wallen	(22,671)	David J. Steele	(47,317)
Walter G. Maxwell	(25,355)	Michael J. MacDermott	(29,946)	John W. Peck	(44, 284)
William P. Christie	(29,371)	Anne Wang	(36,045)	Tom H. Dao	(44,641)
David A. Dillard	(30,831)	Constantine Marantidis	(39,759)	Rose A. Hickman	(P-54,167)
Thomas J. Daly	(32,213)	Daniel R. Kimbell	(34,849)	Colin T. Dorrian	(P-54,658)
Edward R. Schwartz	(31,135)	Daniel M. Cavanagh	(41,661)	R. W. Johnston	(17,968)
John D. Carpenter	(34,133)	Gary J. Nelson	(44,257)	Hayden A. Carney	(22,653)
Wesley W. Monroe	(39,778)	Josephine E. Chang	(46,083)	Russell R. Palmer, Jr.	(22,994)
David A. Plumley	(37,208)	Joel A. Kauth	(41,886)	LeRoy T. Rahn	(20,356)
Gregory S. Lampert	(35,581)	Raymond R. Tabandeh	(43,945)	Richard D. Seibel	(22,134)
Mark Garseia	(31,953)	Cynthia A. Bonner	(44, 548)	Richard J. Paciulan	(28,248)
Syed A. Hasan	(41,057)	Jun-Young E. Jeon	(43,693)		-

The Assignee hereby grants said attorneys the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

The authority under this Power of Attorney of each person named above shall automatically terminate and be revoked upon such person ceasing to be a member or associate of or of counsel to that law firm.

**RECORDED: 08/31/2005**