

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4017920

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
RICHARD J. MASSEY	09/27/1996
MARK T. MARTIN	09/27/1996
LIWEN DONG	09/27/1996
MING LU	09/27/1996
ALAN FISCHER	09/27/1996
FABIAN JAMEISON	09/27/1996
PAM LIANG	09/27/1996
ROBERT HOCH	09/27/1996
JONATHAN K. LELAND	09/27/1996
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	IGEN, INC.
<b>Street Address:</b>	16020 INDUSTRIAL DRIVE
<b>City:</b>	GAITHERSBURG
<b>State/Country:</b>	MARYLAND
<b>Postal Code:</b>	20877
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	12591528
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(703)816-4100
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	703-816-4000
<b>Email:</b>	ap@nixonvan.com
<b>Correspondent Name:</b>	NIXON & VANDERHYE PC
<b>Address Line 1:</b>	901 NORTH GLEBE ROAD
<b>Address Line 2:</b>	SUITE 1100
<b>Address Line 4:</b>	ARLINGTON, VIRGINIA 22203
<b>ATTORNEY DOCKET NUMBER:</b>	GRT/4504-140
<b>NAME OF SUBMITTER:</b>	GARY R. TANIGAWA

PATENT

<b>SIGNATURE:</b>	/Gary R. Tanigawa/
<b>DATE SIGNED:</b>	08/22/2016
<b>Total Attachments: 4</b> source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif	

Curtis, Morris & Safford, P.C.  
File No.: 370068-6120  
Serial No.: 08/611,347  
Filing Date: March 6, 1996

ASSIGNMENT

We (1) Richard J. Massey, (2) Mark T. Martin, (3) Liwen Dong, (4) Ming Lu, (5) Alan Fischer, (6) Fabian Jameison, (7) Pam Liang, (8) Robert Hoch, (9) Jonathan K. Leland, who reside respectively at: (1) 5 Valerian Court, Rockville, MD 20852, (2) 6516 Old Farm Court, N. Bethesda, MD 20852, (3) 11411 Potomac Oaks Drive, Rockville, MD 20850, (4) 6411 Dahlgreen Court, Lanham, MD 20706, (5) 80 Antrim Street, Cambridge, MA 02139, (6) 806 Gallop Hill Road, Apt. H, Gaithersburg, MD 20879, (7) 12 Crownwood Court, Rockville, MD 20850, (8) R.R. 1, Box 422, Hensonville, New York 12439, (9) ~~14002 Chestnut Court, Laurel, MD 20707~~, have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled: **GRAPHITIC NANOTUBES IN LUMINESCENCE ASSAYS**, which application was executed by us

(6) ~~14236 Invention in TSC, Silver Spring MD 20705~~  
and IGEN, INC., whose address is 16020 Industrial Drive, Gaithersburg, Maryland 20877, and which, together with its successors and assigns is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits and privileges hereinafter recited, and of confirming the same or any part thereof heretofore acquired by Assignee.

Now, therefore, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservation:

1. Assign and convey to and confirm in Assignee the entire right, title and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or discoveries or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;

2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in our names or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

3. Authorize and request the Commissioner of Patents of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;

4. Warrant that we have not knowingly conveyed to others any right in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to Assignee without encumbrance;

5. Bind our heirs and legal representatives, as well as ourselves to do, upon Assignee's request and at its expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us or our heirs or representatives if this assignment had not been made; and particularly to

execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in our control or in the control of our heirs or legal representatives and which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

The effective date of this instrument is the \_\_\_\_ day of \_\_\_\_\_ 1996.

In testimony of which we have affixed our signatures.

Richard J. Massey  
Richard J. Massey

Mark T. Martin  
Mark T. Martin

Liwen Dong  
Liwen Dong

Ming Lu  
Ming Lu

Alan Fischer  
Alan Fischer

Fabian Jameison  
Fabian Jameison

Pam Liang  
Pam Liang

Robert Hoch  
Robert Hoch

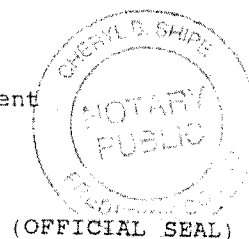
Jonathan K. Leland  
Jonathan K. Leland

State of Maryland )  
County of Frederick ) ss.:

On this 27th day of September 1996 before me appeared Richard J. Massey, to me known and known to me to be the person described in and who executed the foregoing instrument and he acknowledged the same to be his free act and deed.

Cheryl B. Shipe  
Notary Public

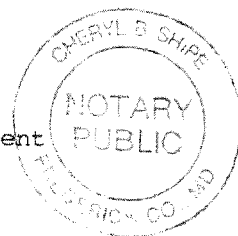
CHERYL B. SHIPE  
Notary Public State of Maryland  
My Commission Expires December 1, 1998



State of Maryland )  
County of Frederick ) ss.:

On this 9th day of September 1996 before me appeared Mark T. Martin, to me known and known to me to be the person described in and who executed the foregoing instrument and he acknowledged the same to be his free act and deed.

Cheryl B. Shipe  
Notary Public  
CHERYL B. SHIPE  
Notary Public State of Maryland  
My Commission Expires December 1, 1998

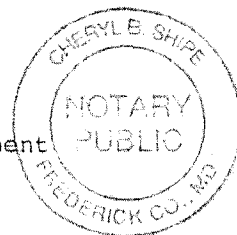


(OFFICIAL SEAL)

State of Maryland )  
County of Frederick ) ss.:

On this 7th day of September 1996 before me appeared Liwen Dong, to me known and known to me to be the person described in and who executed the foregoing instrument and he acknowledged the same to be his free act and deed.

Cheryl B. Shipe  
Notary Public  
CHERYL B. SHIPE  
Notary Public State of Maryland  
My Commission Expires December 1, 1998

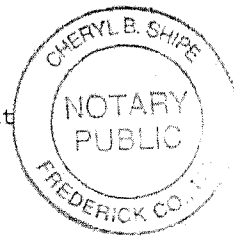


(OFFICIAL SEAL)

State of Maryland )  
County of Frederick ) ss.:

On this 7th day of September 1996 before me appeared Ming Lu, to me known and known to me to be the person described in and who executed the foregoing instrument and he acknowledged the same to be his free act and deed.

Cheryl B. Shipe  
Notary Public  
CHERYL B. SHIPE  
Notary Public State of Maryland  
My Commission Expires December 1, 1998



(OFFICIAL SEAL)

State of Mass )  
County of Middlesex ) ss.:

On this 4th day of October 1996 before me appeared Alan Fischer, to me known and known to me to be the person described in and who executed the foregoing instrument and he acknowledged the same to be his free act and deed.

Donna H. Accardi  
Notary Public

(OFFICIAL SEAL)

State of MARYLAND )  
 ) ss.:  
County of MONTGOMERY )

On this 27<sup>TH</sup> day of SEPTEMBER, 1996 before me  
appeared Fabian Jameison, to me known and known to me to be  
the person described in and who executed the foregoing instrument  
and he acknowledged the same to be his free act and deed.

Barbara A. Bibbiani  
Notary Public MY COMMISSION EXPIRES 7-25-00

(OFFICIAL SEAL)

State of )  
 ) ss.:  
County of )

On this day of 1996 before me  
appeared Pam Liang, to me known and known to me to be  
the person described in and who executed the foregoing instrument  
and he acknowledged the same to be his free act and deed.

Notary Public

(OFFICIAL SEAL)

State of Mass )  
 ) ss.:  
County of Middlesex )

On this 4<sup>TH</sup> day of October 1996 before me  
appeared Robert Hoch, to me known and known to me to be  
the person described in and who executed the foregoing instrument  
and he acknowledged the same to be his free act and deed.

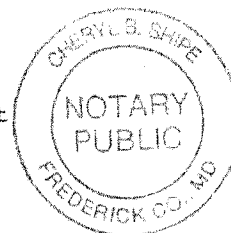
Donna M. Accardi  
Notary Public

(OFFICIAL SEAL)

State of Maryland )  
 ) ss.:  
County of Frederick )

On this 27<sup>TH</sup> day of September 1996 before me  
appeared Jonathan K. Leland, to me known and known to me to be  
the person described in and who executed the foregoing instrument  
and he acknowledged the same to be his free act and deed.

Cheryl B. Shipe  
Notary Public CHERYL B. SHIPE  
Notary Public State of Maryland  
My Commission Expires December 1, 1998



(OFFICIAL SEAL)