KL Ref. No.: 100390-06500

U.S. DEPARTMENT OF COMMERCE

101842763 Patent and Trademark Office

To the Horotal Commissioner of Patents and Trademarks:	Please record the attached original documents or copy thereof.		
1. Name of conveying party(ies) George B. Sigal, Howie Tjiong, Liwen Dong, Md. Athar Masood and Richard C. Titmas Additional name(s) of conveying party(ies) attached? ☐ Yes ☐ No	2. Name and address of receiving party(ies) Name: IGEN International, Inc. Internal Address: Street Address: 16020 Industrial Drive City: Gaithersburg State: MD Zip: 20877		
3. Nature of conveyance:	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, the execution date of the application is: A. Patent Application No.(s) 09/896,974 B. Patent No.(s) 			
Additional numbers att			
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved		
Name: Barry Evans, Esq.	7. Total fee (37 CFR 3.41)		
Internal Address: Kramer Levin Naftalis & Frankel LLP	☑ Enclosed		
Street Address: 919 Third Avenue	Authorized to be charged to deposit account # 50-0540		
City: New York State: New York Zip: 10022			
	8. Deposit account number: 50-0540 (Attach duplicate copy of this page if paying by deposit account)		
Do not use	this space		
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true at Barry Evans, Esq.	and correct and any attached copy is a true copy of the original document.		
Name of Person Signing Sign	Total number of pages including cover sheet. attachments, and document: 21		
↑ Do not detac	h this portion		
9/13/2001 TDIAZ1 00000043 09896974 Mail Locuments to be recorded with	required cover sheet information to:		
	ents and Trademarks ignments , D.C. 20231		
Public burden reporting for this sample cover sheet is estimated and a venue about	30 minutes per document to be recorded, including time for reviewing the		

document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project (0651-0011), Washington, D.C. 20503.

FORM PTO-1595

(Rev. 6-93)

WHEREAS we, **George B. Sigal.** residing at 5333 Trailway Dr., Rockville, MD 20853; **Howie Tjiong**, residing at 2220 Bristol St., Holland, MI 49424; and **Liwen Dong**, residing at 11411 Potomac Oaks Dr., Rockville, MD 20850, all Citizens of the United States; and **Athar Masood**, residing at 734 Clopper Rd., Apt. #34, Gaithersburg, MD 20878. Citizen of India; and **Richard C. Titmas**, residing at 12 Partridge Lane, Boxford, MA 01921, Citizen of the United Kingdom, (hereinafter referred to as the "ASSIGNORS"), have invented certain new and useful improvements set forth and described in U.S. Application Serial No. _______, filed _______ entitled "ECL Labels Having Improved Non-Specific Binding Properties, Methods of Using and Kits Containing the Same" and **IGEN INTERNATIONAL, INC.**, having an office and principal place of business at 16020 Industrial Drive, Gaithersburg, MD 20877 (hereinafter referred to as the "ASSIGNEE"), is desirous of obtaining the entire right, title and interest in, to and under the improvements and the application(s);

NOW, THEREFORE, for good and valuable consideration received, the receipt of which is hereby acknowledged, ASSIGNORS have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the improvements, and all non-provisional applications, divisions, renewals, substitutes, and continuations thereof, and all Letters Patent of the United States that may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent and any legal equivalent thereof, including the right to claim priority, that have been or may hereafter be filed for the improvements in any country or countries foreign to the United States, and all Letters Patent and any legal equivalent thereof that may be granted for the improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof, the same to be held and enjoyed by ASSIGNEE for its own use and benefit and for the use and benefit of its successors, assigns or other legal representatives fully and entirely as if the same would have been held and enjoyed by ASSIGNORS if this Assignment had not been made, to the end of the term or terms for which any Letters Patent and any legal equivalent thereof may be granted;

AND ASSIGNORS HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to record this Assignment, and to issue all Letters Patent for the improvements to ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

AND ASSIGNORS HEREBY covenant that ASSIGNORS have the full right to convey the entire interest herein assigned, and that ASSIGNORS have not executed, and will not execute, any agreement, assignment, sale or encumbrance in conflict herewith;

AND ASSIGNORS HEREBY further covenant and agree that ASSIGNORS will communicate to ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNORS respecting the improvements, and will testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid ASSIGNEE, its

KL3 2115307 I

SEP 1 0 2001 George B. Siga	
STATE OF MARYLAND) SS.: COUNTY OF MONTGOMERY)	
On this	² ublic
Howie Tjiong	
STATE OF)	
COUNTY OF) ss.:	
On this	
Notary Public	

	Liwen Dong	
STATE OF)	
COUNTY OF) ss.:)	
Liwen Dong, to me persona	ally known, who being by the foregoing instrumen	, 2001, before me appeared with me duly sworn did say that he is one of the tof Assignment and he signed this
		Notary Public
	Athar Masood	
STATE OF)	
COUNTY OF) ss.:)	
On this	day of	, 2001, before me appeared
Athar Masood, to me person	nally known, who being I in the foregoing instrum	by me duly sworn did say that he is one ent of Assignment and he signed this
		Notary Public

	Richard C. Titr	mas
STATE OF)	
) ss.:	
COUNTY OF)	
On this	day of	, 2001, before me appeared
Richard C. Titmas, to me po	ersonally known, who be	ng by me duly sworn did say that he is
one of the ASSIGNORS na	med in the foregoing inst	rument of Assignment and he signed this
instrument of Assignm <mark>ent</mark> in	n my presence.	
		Notary Public
		inotally I udite

NOW, THEREFORE, for good and valuable consideration received, the receipt of which is hereby acknowledged, ASSIGNORS have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the improvements, and all non-provisional applications, divisions, renewals, substitutes, and continuations thereof, and all Letters Patent of the United States that may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent and any legal equivalent thereof, including the right to claim priority, that have been or may hereafter be filed for the improvements in any country or countries foreign to the United States, and all Letters Patent and any legal equivalent thereof that may be granted for the improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof, the same to be held and enjoyed by ASSIGNEE for its own use and benefit and for the use and benefit of its successors, assigns or other legal representatives fully and entirely as if the same would have been held and enjoyed by ASSIGNORS if this Assignment had not been made, to the end of the term or terms for which any Letters Patent and any legal equivalent thereof may be granted;

AND ASSIGNORS HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to record this Assignment, and to issue all Letters Patent for the improvements to ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

AND ASSIGNORS HEREBY covenant that ASSIGNORS have the full right to convey the entire interest herein assigned, and that ASSIGNORS have not executed, and will not execute, any agreement, assignment, sale or encumbrance in conflict herewith;

AND ASSIGNORS HEREBY further covenant and agree that ASSIGNORS will communicate to ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNORS respecting the improvements, and will testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid ASSIGNEE, its

KL3 2115307 I

IN WITNESS WHEREOF, ASSIGNORS have set their hands and seals to this Assignment.

	George B. Sigal
STATE OF) } as t
COUNTY OF) ss.:)
George B. Sigal, to me personally	day of
	Howie Tjiong
STATE OF MUCHYLIA COUNTY OF UHUWR)) ss.: 076-64-9454)
COUNTY OF L'HUUT)
	•
	Notary Public

	Liwen Dong	
STATE OF)) ss.:	
COUNTY OF) 55	
Liwen Dong, to me persona	lly known, who being by the foregoing instrumen	, 2001, before me appeared me duly sworn did say that he is one of t of Assignment and he signed this
		Notary Public
	Athar Masood	
STATE OF)	
COUNTY OF) ss.:)	
Athar Masood, to me person	ally known, who being a the foregoing instrum	, 2001, before me appeared by me duly sworn did say that he is one ent of Assignment and he signed this
		Notary Public

	Richard C.	Titmas	
STATE OF)		
COUNTY OF) ss.:)		
On this Richard C. Titmas, to me pone of the ASSIGNORS not instrument of Assignment	amed in the foregoing is	, 2001, before me appeared being by me duly sworn did say that he is instrument of Assignment and he signed the	is
		Notary Public	

4

WHE	REAS we, George B.	Sigal, residing at 5	3333 Trailway Dr., R	lockville,
MD 20853; Howie 7	Tjiong , residing at 222	20 Bristol St., Holla	and, MI 49424; and	Liwen
Dong, residing at 114	11 Potomac Oaks Dr.	., Rockville, MD 2	20850, all Citizens of	f the United
States; and Athar Ma	asood, residing at 734	Clopper Rd., Apt.	#34, Gaithersburg, N	MD 20878,
Citizen of India; and	Richard C. Titmas, 1	residing at 12 Partr	idge Lane, Boxford,	MA
01921, Citizen of the	United Kingdom, (he	reinafter referred t	o as the "ASSIGNOI	RS"), have
invented certain new	and useful improveme	ents set forth and d	escribed in U.S. App	olication
Serial No.	, filed	entitled "EC	L Labels Having Imp	proved
Non-Specific Binding	Properties, Methods	of Using and Kits	Containing the Same	e" and
IGEN INTERNATI	ONAL, INC., having	an office and prine	cipal place of busines	ss at 16020
Industrial Drive, Gait	hersburg, MD 20877	(hereinafter referr	ed to as the "ASSIGI	NEE"), is
desirous of obtaining	the entire right, title a	and interest in, to a	nd under the improve	ements and
the application(s);				

NOW, THEREFORE, for good and valuable consideration received, the receipt of which is hereby acknowledged, ASSIGNORS have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the improvements, and all non-provisional applications, divisions, renewals, substitutes, and continuations thereof, and all Letters Patent of the United States that may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent and any legal equivalent thereof, including the right to claim priority, that have been or may hereafter be filed for the improvements in any country or countries foreign to the United States, and all Letters Patent and any legal equivalent thereof that may be granted for the improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof, the same to be held and enjoyed by ASSIGNEE for its own use and benefit and for the use and benefit of its successors, assigns or other legal representatives fully and entirely as if the same would have been held and enjoyed by ASSIGNORS if this Assignment had not been made, to the end of the term or terms for which any Letters Patent and any legal equivalent thereof may be granted;

AND ASSIGNORS HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to record this Assignment, and to issue all Letters Patent for the improvements to ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

AND ASSIGNORS HEREBY covenant that ASSIGNORS have the full right to convey the entire interest herein assigned, and that ASSIGNORS have not executed, and will not execute, any agreement, assignment, sale or encumbrance in conflict herewith;

AND ASSIGNORS HEREBY further covenant and agree that ASSIGNORS will communicate to ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNORS respecting the improvements, and will testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid ASSIGNEE, its

KI.3:2115307-1

		George B. Siga	
		311161 21 8161	
STATE OF)) ss.:	
COUNTY OF) 33	
George B. Siga	il, to me perso IORS named i	nally known, who being n the foregoing instrum	, 2001, before me appeared g by me duly sworn did say that he is one ent of Assignment and he signed this
			N. (D. L.C.
			Notary Public
			Notary Public
			Notary Public
		Howie Tjiong	Notary Public
STATE OF		Howie Tjiong	Notary Public
			Notary Public
COUNTY OF	On this	Howie Tjiong)) ss.:)	
STATE OF COUNTY OF Howie Tjiong, he ASSIGNOI nstrument of A	RS named in tl	Howie Tjiong)) ss.:) day of day of he foregoing instrument	, 2001, before me appeared y me duly sworn did say that he is one of Assignment and he signed this
COUNTY OF Howie Tjiong, he ASSIGNOI	RS named in tl	Howie Tjiong)) ss.:) day of day of dly known, who being being being being instrument my presence.	, 2001, before me appeared y me duly sworn did say that he is one o

Liwen Dong)MARYLAND) ss.: STATE OF MONTGUNERY **COUNTY OF** On this 25th day of July, 2001, before me appeared Liwen Dong, to me personally known, who being by me duly sworn did say that he is one of the ASSIGNORS named in the foregoing instrument of Assignment and he signed this instrument of Assignment in my presence. LOUISE J. STANTON Notary Public Commission Expires 5/30/2004 Athar Masood STATE OF) ss.: **COUNTY OF** On this _____ day of _____, 2001, before me appeared Athar Masood, to me personally known, who being by me duly sworn did say that he is one of the ASSIGNORS named in the foregoing instrument of Assignment and he signed this instrument of Assignment in my presence. Notary Public

	Richard C. Ti	tmas
STATE OF)	
) ss.:	
COUNTY OF)	
On this	day of	, 2001, before me appeared
Richard C. Titmas, to me pe	ersonally known, who be med in the foregoing ins	eing by me duly sworn did say that he is strument of Assignment and he signed this
Ç	•	Natory Duklia
		Notary Public

4

NOW, THEREFORE, for good and valuable consideration received, the receipt of which is hereby acknowledged, ASSIGNORS have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the improvements, and all non-provisional applications, divisions, renewals, substitutes, and continuations thereof, and all Letters Patent of the United States that may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent and any legal equivalent thereof, including the right to claim priority, that have been or may hereafter be filed for the improvements in any country or countries foreign to the United States, and all Letters Patent and any legal equivalent thereof that may be granted for the improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof, the same to be held and enjoyed by ASSIGNEE for its own use and benefit and for the use and benefit of its successors, assigns or other legal representatives fully and entirely as if the same would have been held and enjoyed by ASSIGNORS if this Assignment had not been made, to the end of the term or terms for which any Letters Patent and any legal equivalent thereof may be granted;

AND ASSIGNORS HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to record this Assignment, and to issue all Letters Patent for the improvements to ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument:

AND ASSIGNORS HEREBY covenant that ASSIGNORS have the full right to convey the entire interest herein assigned, and that ASSIGNORS have not executed, and will not execute, any agreement, assignment, sale or encumbrance in conflict herewith;

AND ASSIGNORS HEREBY further covenant and agree that ASSIGNORS will communicate to ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNORS respecting the improvements, and will testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid ASSIGNEE, its

KL3:2115307.1

Assignment.	IN WITNESS WHE	REOF, ASSIGN	IORS have set their hands and seals to this
		George B. Sig	gal
STATE OF)	
COUNTY OF) ss.:)	
of the ASSIGN		oregoing instrun	, 2001, before me appeared ag by me duly sworn did say that he is one nent of Assignment and he signed this
			Notary Public
		Howie Tjiong	
STATE OF)) ss.:	
COUNTY OF)	
the ASSIGNO	On this da to me personally kno RS named in the fore Assignment in my pro	going instrumer	, 2001, before me appeared by me duly sworn did say that he is one of at of Assignment and he signed this
			Notary Public

	Liwen Dong
STATE OF	,
)) ss.:
COUNTY OF) 55
On this	day of, 2001, before me appeared lly known, who being by me duly sworn did say that he is one of the foregoing instrument of Assignment and be a significant to the same of the
the ASSIGNORS	lly known, who being by me duly sworn did are the dippeared
instrument of Assignment in	the foregoing instrument of Assignment and he signed this
a of Assignment II	my presence.
	Notary Public
	Md. Athar Masond 06/22/01
	Md. Athar Masood
STATE OF MARYING	
STATE OF MARYLANS	
COUNTY OF MONTEON	SS.: SERY)
On this 22 y	day of Ting
M. Athar Masood, to me personal	y known, who being by me duly sworn did say that he is one
" Louiding's named in	the feature of the fe
instrument of Assignment in m	y presence.
	Barra a aras
	Barbara a. Bibbiani Notary Public
	rotary rubile

MY COMMISSION EXPIRES 7-1-04

3

	Richard C. Titi	nas
STATE OF)	
) ss.:	
COUNTY OF)	
On this	day of	, 2001, before me appeared
Richard C. Titmas, to me pe	ersonally known, who be med in the foregoing ins	ing by me duly sworn did say that he is trument of Assignment and he signed this
		Notary Public

4

WHEREAS we, **George B. Sigal**, residing at 5333 Trailway Dr., Rockville, MD 20853; **Howie Tjiong**, residing at 2220 Bristol St., Holland, MI 49424; and **Liwen Dong**, residing at 11411 Potomac Oaks Dr., Rockville, MD 20850, all Citizens of the United States; and **Athar Masood**, residing at 734 Clopper Rd., Apt. #34, Gaithersburg, MD 20878. Citizen of India; and **Richard C. Titmas**, residing at 12 Partridge Lane, Boxford, MA 01921, Citizen of the United Kingdom, (hereinafter referred to as the "ASSIGNORS"), have invented certain new and useful improvements set forth and described in U.S. Application Serial No. _______, filed ________ entitled "ECL Labels Having Improved Non-Specific Binding Properties, Methods of Using and Kits Containing the Same" and **IGEN INTERNATIONAL, INC.**, having an office and principal place of business at 16020 Industrial Drive, Gaithersburg, MD 20877 (hereinafter referred to as the "ASSIGNEE"), is desirous of obtaining the entire right, title and interest in, to and under the improvements and the application(s);

NOW, THEREFORE, for good and valuable consideration received, the receipt of which is hereby acknowledged, ASSIGNORS have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the improvements, and all non-provisional applications, divisions, renewals, substitutes, and continuations thereof, and all Letters Patent of the United States that may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent and any legal equivalent thereof, including the right to claim priority, that have been or may hereafter be filed for the improvements in any country or countries foreign to the United States, and all Letters Patent and any legal equivalent thereof that may be granted for the improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof, the same to be held and enjoyed by ASSIGNEE for its own use and benefit and for the use and benefit of its successors, assigns or other legal representatives fully and entirely as if the same would have been held and enjoyed by ASSIGNORS if this Assignment had not been made, to the end of the term or terms for which any Letters Patent and any legal equivalent thereof may be granted;

AND ASSIGNORS HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to record this Assignment, and to issue all Letters Patent for the improvements to ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument:

AND ASSIGNORS HEREBY covenant that ASSIGNORS have the full right to convey the entire interest herein assigned, and that ASSIGNORS have not executed, and will not execute, any agreement, assignment, sale or encumbrance in conflict herewith;

AND ASSIGNORS HEREBY further covenant and agree that ASSIGNORS will communicate to ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNORS respecting the improvements, and will testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid ASSIGNEE, its

K£3:2115307-1

successors, legal representatives and assigns, to obtain and enforce proper patent protection for the improvements in all countries.

IN WITNESS WHEREOF, ASSIGNORS have set their hands and seals to this Assignment.

	George B. Siga	1	
STATE OF)		
COUNTY OF) ss.:)		
On this George B. Sigal, to me pers of the ASSIGNORS named instrument of Assignment i	in the foregoing instrum	, 2001, before me appeared g by me duly sworn did say that he is one ent of Assignment and he signed this	
		Notary Public	
	Howie Tjiong		
STATE OF)) ss.:		
COUNTY OF)		
On this Howie Tjiong, to me person the ASSIGNORS named in instrument of Assignment in	the foregoing instrument	, 2001, before me appeared by me duly sworn did say that he is one of t of Assignment and he signed this	
		Notary Public	

	Liwen Dong			
STATE OF)) s s.:			
COUNTY OF)			
Liwen Dong, to me pers	sonally known, who being by r d in the foregoing instrument o	, 2001, before me appeared me duly sworn did say that he is one of of Assignment and he signed this		
	\overline{N}	Notary Public		
	Athar Masood			
STATE OF)) ss.:			
COUNTY OF)			
Athar Masood, to me pe	ersonally known, who being by med in the foregoing instrumen	, 2001, before me appeared me duly sworn did say that he is one at of Assignment and he signed this		
-	\overline{N}	lotary Public		

Rubiod & Titman

STATE OF NEW Non-Shief COUNTY OF Assertion) ss.:

On this 26 day of 3006 , 2001, before me appeared Richard C. Titmas, to me personally known, who being by me duly sworn did say that he is one of the ASSIGNORS named in the foregoing instrument of Assignment and he signed this

instrument of Assignment in my presence.

JOEL F. MURPHY * NOTARY PUBLIC - NEW HAMPSHIRE * My Commission Expires July 31, 2001

4

RECORDED: 09/10/2001