

09-14-2001

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KL Ref. No.: 100390-06500

FORM PTO-1595 (Rev. 6-93)

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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

To the Honorable 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

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

Additional name(s) of conveying party(ies) attached?
[] Yes [X] No

Handwritten initials: RCT

3. Nature of conveyance:
[X] Assignment
[] Security Agreement
[] Merger
[] Change of Name
[] Other

Additional name(s) & address(es) attached? [] Yes [] No

Execution Date: June 22, 2001, June 25, 2001, July 25, 2001 and June 26, 2001

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 attached? [] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Barry Evans, Esq.
Internal Address: Kramer Levin Naftalis & Frankel LLP
Street Address: 919 Third Avenue
City: New York State: New York Zip: 10022

6. Total number of applications and patents involved 1

7. Total fee (37 CFR 3.41) \$40.00
[X] Enclosed
[] Authorized to be charged to deposit account # 50-0540

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 and correct and any attached copy is a true copy of the original document.

Barry Evans, Esq.

Name of Person Signing

Handwritten signature of Barry Evans

Signature

Handwritten date: 9/7/01

Date

Total number of pages including cover sheet, attachments, and document: 21

Do not detach this portion

09/13/2001 TDIAZ1 00000043 09896974 Mail documents to be recorded with required cover sheet information to:

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40.00 OP

Commissioner of Patents and Trademarks
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Washington, D.C. 20231

Public burden reporting for this sample cover sheet is estimated to take 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.

ASSIGNMENT

WHEREAS we, **George B. Sigal**, residing at 5333 Trailway Dr., Rockville, MD 20853; **Howie Tjong**, 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

Richard C. Titmas

STATE OF)
) ss.:
COUNTY OF)

On this _____ day of _____, 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.

Notary Public

ASSIGNMENT

WHEREAS we, **George B. Sigal**, residing at 5333 Trailway Dr., Rockville, MD 20853; **Howie Tjong**, 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

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. Sigal

STATE OF)

) ss.:

COUNTY OF)

On this 25 day of June, 2001, before me appeared George B. Sigal, 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.

Dawn Schrotenko
Notary Public

Howie Tjong
Howie Tjong

STATE OF Michigan)

) ss.: 076-64-9454

COUNTY OF Ottawa)

On this 25 day of June, 2001, before me appeared Howie Tjong, 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.

Dawn Schrotenko
Notary Public

Liwen Dong

STATE OF)
) ss.:
COUNTY OF)

On this _____ day of _____, 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.

Notary Public

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. Titmas

STATE OF

)

COUNTY OF

) ss.:

)

On this _____ day of _____, 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.

Notary Public

ASSIGNMENT

WHEREAS we, **George B. Sigal**, residing at 5333 Trailway Dr., Rockville, MD 20853; **Howie Tjong**, 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

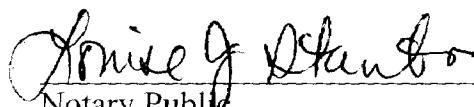


Liwen Dong

STATE OF
COUNTY OF

) MARYLAND
) ss.:
) MONTGOMERY

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.



Notary Public

LOUISE J. STANTON
Notary Public
Commission Expires 5/30/2004

Athar Masood

STATE OF
COUNTY OF

)
) ss.:
)

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. Titmas

STATE OF)
) ss.:
COUNTY OF)

On this _____ day of _____, 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.

Notary Public

ASSIGNMENT

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);

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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. Sigal

STATE OF)
) ss.:
COUNTY OF)

On this _____ day of _____, 2001, before me appeared George B. Sigal, 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

Howie Tjiong

STATE OF)
) ss.:
COUNTY OF)

On this _____ day of _____, 2001, before me appeared Howie Tjiong, 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

Liwen Dong

STATE OF)
COUNTY OF) ss.:
)

On this _____ day of _____, 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.

Notary Public

Atthar Masood 06/22/01
Md. Athar Masood

STATE OF **MARYLAND**)
COUNTY OF **MONTGOMERY**) ss.:
)

On this **22ND** day of **JUNE**, 2001, before me appeared **Md. 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.

Barbara A. Bibbiani
Notary Public
MY COMMISSION EXPIRES 7-1-04

Richard C. Titmas

STATE OF)
) ss.:
COUNTY OF)

On this _____ day of _____, 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.

Notary Public

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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. Sigal

STATE OF)
) ss.:
COUNTY OF)

On this _____ day of _____, 2001, before me appeared George B. Sigal, 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

Howie Tjiong

STATE OF)
) ss.:
COUNTY OF)

On this _____ day of _____, 2001, before me appeared Howie Tjiong, 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 Titmas

Richard C. Titmas

STATE OF *NEW HAMPSHIRE*)

COUNTY OF *Ross*) SS.:
)

On this 26 day of JUNE, 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

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