

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3030410

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| HIDEKI HOSHINO | 09/03/2014 |
| HIDEKI GOUDA | 09/09/2014 |
| KENSAKU TAKANASHI | 09/09/2014 |
| YASUSHI NAKANO | 09/09/2014 |
| KOHSUKE GONDA | 09/10/2014 |
| NORIAKI OHUCHI | 06/16/2014 |
| MIKA WATANABE | 09/10/2014 |
| RECEIVING PARTY DATA | |
| Name: | KONICA MINOLTA, INC. |
| Street Address: | 2-7-2, MARUNOUCHI, CHIYODA-KU |
| City: | TOKYO |
| State/Country: | JAPAN |
| Postal Code: | 100-7015 |
| Name: | TOHOKU UNIVERSITY |
| Street Address: | 1-1, KATAHIRA 2-CHOME, AOBA-KU |
| City: | SENDAI-SHI, MIYAGI |
| State/Country: | JAPAN |
| Postal Code: | 980-8577 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14386546 |
| CORRESPONDENCE DATA | |
| Fax Number: | (212)661-8002 |
| <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> | |
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| 502983811 | PATENT REEL: 033778 FRAME: 0381 |

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| ATTORNEY DOCKET NUMBER: | KMSSI-1010 |
| NAME OF SUBMITTER: | DONALD C. LUCAS |
| SIGNATURE: | /Donald C. Lucas/ |
| DATE SIGNED: | 09/19/2014 |
| Total Attachments: 4 source=KMSSI_1010_AssignmentSigned#page1.tif source=KMSSI_1010_AssignmentSigned#page2.tif source=KMSSI_1010_AssignmentSigned#page3.tif source=KMSSI_1010_AssignmentSigned#page4.tif | |

Assignment of Application

INSERT NAMES
AND RESIDENCE
ADDRESS OF
THE INVENTORS:

WHEREAS, I (WE) 1) Hideki HOSHINO, 2) Hideki GOUDA, 3) Kensaku TAKANASHI and 4) Yasushi NAKANO of c/o KONICA MINOLTA, INC., 2-7-2, Marunouchi, Chiyoda-ku, Tokyo 1007015 Japan, 5) Kohsuke GONDA, 6) Noriaki OHUCHI and 7) Mika WATANABE of c/o TOHOKU UNIVERSITY, 1-1, Katahira 2-chome, Aoba-ku, Sendai-shi, Miyagi 9808577 Japan, respectively,

INSERT TITLE OF
INVENTION:

have invented certain new and useful improvements in: "DETECTION METHOD FOR BIOLOGICAL SUBSTANCE"

(Application No. _____, filed _____), and

1) KONICA MINOLTA, INC.

INSERT NAMES
AND ADDRESS OF
COMPANY OR
OTHER ASSIGNEE:

WHEREAS, 2) TOHOKU UNIVERSITY

(hereinafter referred to as "ASSIGNEE") having a place of business at :

1) 2-7-2, Marunouchi, Chiyoda-ku, Tokyo 1007015 Japan

2) 1-1, Katahira 2-chome, Aoba-ku, Sendai-shi, Miyagi 9808577 Japan

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I(WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full 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 and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Lucas & Mercanti LLP of 30 Broad Street, 21st Floor

New York, NY 10004

U.S.A. the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: September, 3, 2014

Hideki Hoshino
(Signature of Inventor) Hideki HOSHINO

Date: September 9, 2014

Hideki Gouda
(Signature of Inventor) Hideki GOUDA

Date: September 9, 2014

Kensaku Takanashi
(Signature of Inventor) Kensaku TAKANASHI

Date: September 9, 2014

Yasushi Nakano
(Signature of Inventor) Yasushi NAKANO

Date: _____

(Signature of Inventor) Kohsuke GONDA

Date: _____

(Signature of Inventor) Noriaki OHUCHI

Date: _____

(Signature of Inventor) Mika WATANABE

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Assignment of Application

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|--------------------------|--|
| Date: _____ | (Signature of Inventor) _____ Hideki HOSHINO |
| Date: _____ | (Signature of Inventor) _____ Hideki GOUDA |
| Date: _____ | (Signature of Inventor) _____ Kensaku TAKANASHI |
| Date: _____ | (Signature of Inventor) _____ Yasushi NAKANO |
| Date: September 10, 2014 | (Signature of Inventor) _____ Kohsuke GONDA |
| Date: June 16, 2014 | (Signature of Inventor) _____ Noriaki OHUCHI |
| Date: September 10, 2014 | (Signature of Inventor) _____ Mika WATANABE |
| Date: _____ | (Signature of Inventor) _____ |
| Date: _____ | (Signature of Inventor) _____ |
| Date: _____ | (Signature of Inventor) _____ |