### 505022682 07/26/2018

### PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
	ΓΥ DATA				
		Name		Execution Date	
AKIHIRO SUZUKI				07/17/2018	
MOTOHIRO ASANO	C			06/20/2018	
HIROSHI TAKAHASHI				07/11/2018	
RECEIVING PART	Υ DATA				
Name:	KONIC	KONICA MINOLTA, INC.			
Street Address:	2-7-2 N	7-2 MARUNOUCHI, CHIYODA-KU			
City:	ΤΟΚΥ	ΤΟΚΥΟ			
State/Country:	JAPAN	JAPAN			
Postal Code:	100-70	15			
Property T		Number			
Property T Application Number	уре				
Application Number CORRESPONDENCE Fax Number: <i>Correspondence w</i> <i>using a fax numbe</i> Phone: Email: Correspondent Na Address Line 1:	ype er: CE DATA vill be sent to er, if provided	Number 16072070 (212)986-0604 o the e-mail address first; in d; if that is unsuccessful, it 212-883-4900 Emartinez@cozen.com COZEN O'CONNOR 277 PARK AVENUE	will be sent vi		
Application Number CORRESPONDENCE Fax Number: Correspondence v using a fax number Phone: Email: Correspondent Na Address Line 1: Address Line 4:	ype er: CE DATA vill be sent to or, if provided me:	Number 16072070 (212)986-0604 o the e-mail address first; in d; if that is unsuccessful, it 212-883-4900 Emartinez@cozen.com COZEN O'CONNOR 277 PARK AVENUE NEW YORK, NEW YORK 10	will be sent vi		
Application Number CORRESPONDENCE Fax Number: Correspondence w using a fax number Phone: Email: Correspondent Na Address Line 1: Address Line 4:	ype er: CE DATA vill be sent to or, if provided me: T NUMBER:	Number   16072070   (212)986-0604   o the e-mail address first; in that is unsuccessful, it   212-883-4900   Emartinez@cozen.com   COZEN O'CONNOR   277 PARK AVENUE   NEW YORK, NEW YORK 10   6190-15PUS/432229	will be sent vi		
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Attorney Docket Number: Applicant Number: B40064US01

#### ASSIGNMENT

In consideration of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, We the undersigned,

(hereinafter referred to as "ASSIGNOR"):

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Hereby sell, assign and transfer to <u>Konica Minolta, Inc.</u>, a corporation of <u>Japan</u>, having a place of business at <u>2-7-2</u>, <u>Marunouchi</u>, <u>Chiyoda-ku</u>, <u>Tokyo 100-7015</u> Japan (hereinafter referred to as "ASSIGNEE"), respectively, its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to the invention which is disclosed in the application for United States Letters Patent, which is disclosed in the application for United States Letters Patent, executed by the undersigned

[] concurrently herewith,

[X] which is the U.S. national stage application of International PCT Application No. <u>PCT/JP2017/000612</u>, filed on January 11, 2017 and which is entitled

## GAS DETECTION DEVICE, GAS DETECTION METHOD, AND GAS DETECTION PROGRAM

and in and to said application and all provisional, divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on said invention; and in and to all original, reissued and other patents and certificates of invention which have been or shall be issued in the United States and all foreign countries on said invention;

Agree that said Assignee may apply for and receive Letters Patent for said invention in its own name, and that, when requested, without further consideration from or charge to, but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on said invention; execute

all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said invention and for vesting title to said invention and all applications for patents and all patents on said invention, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date:  $\frac{July /7.2018}{\text{month/day/year}}$ 

Date:

Date:

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Akiliho Suzuki Akiliho Suzuki

Witness

Witness

month/day/year

month/day/year

**Motohiro ASANO** 

Witness

Witness

**Hiroshi TAKAHASHI** 

Witness

Witness

Note: Signature of a witness is preferable, but not required.

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Assignment C/M# 1~

### ASSIGNMENT

In consideration of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, We the undersigned,

(hereinafter referred to as "ASSIGNOR"):

Hereby sell, assign and transfer to <u>Konica Minolta, Inc.</u>, a corporation of <u>Japan</u>, having a place of business at <u>2-7-2</u>, <u>Marunouchi</u>, <u>Chiyoda-ku</u>, <u>Tokyo 100-7015</u> <u>Japan</u> (hereinafter referred to as "ASSIGNEE"), respectively, its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to the invention which is disclosed in the application for United States Letters Patent, which is disclosed in the application for United States Letters Patent, executed by the undersigned

[] concurrently herewith,

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Agree that said Assignee may apply for and receive Letters Patent for said invention in its own name, and that, when requested, without further consideration from or charge to, but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on said invention; execute

all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee. its successors, assigns, and representatives, all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said invention and for vesting title to said invention and all applications for patents and all patents on said invention, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date:

¢

month/day/year

**Akihiro SUZUKI** 

Witness

Date: June 20. 2018 month/day/year

Motohiro ASANC

Witness

Witness

#### **Hiroshi TAKAHASHI**

Witness

Witness

Note: Signature of a witness is preferable, but not required.

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Assignment C/M# 1~

PATENT REEL: 046474 FRAME: 0043

Date:

month/day/year

Witness

#### ASSIGNMENT

In consideration of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, We the undersigned,

(hereinafter referred to as "ASSIGNOR"):

- A. - A

> Hereby sell, assign and transfer to <u>Konica Minolta, Inc.</u>, a corporation of <u>Japan</u>, having a place of business at <u>2-7-2</u>, <u>Marunouchi, Chiyoda-ku</u>, <u>Tokyo 100-7015</u> Japan (hereinafter referred to as "ASSIGNEE"), respectively, its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to the invention which is disclosed in the application for United States Letters Patent, which is disclosed in the application for United States Letters Patent, executed by the undersigned

[] concurrently herewith,

[X] which is the U.S. national stage application of International PCT Application No. <u>PCT/JP2017/000612</u>, filed on January 11, 2017 and which is entitled

# GAS DETECTION DEVICE, GAS DETECTION METHOD, AND GAS DETECTION PROGRAM

and in and to said application and all provisional, divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on said invention; and in and to all original, reissued and other patents and certificates of invention which have been or shall be issued in the United States and all foreign countries on said invention;

Agree that said Assignce may apply for and receive Letters Patent for said invention in its own name, and that, when requested, without further consideration from or charge to, but at the expense of said Assignce, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on said invention; execute

all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said invention and for vesting title to said invention and all applications for patents and all patents on said invention, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date:

month/day/year

**Akihiro SUZUKI** 

Witness

Date:

month/day/year

Witness

**Motohiro ASANO** 

Witness

Witness

Date: <u>July 11, 2018</u> month/day/year

iroshi Hiroshi TA

Witness

Witness

Note: Signature of a witness is preferable, but not required.

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Assignment C/M# 1~

PATENT REEL: 046474 FRAME: 0045

**RECORDED: 07/26/2018**