#### 508045747 08/02/2023

### **PATENT ASSIGNMENT COVER SHEET**

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT8092901

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
AKIHIRO HAYASHI	06/26/2023
YUJI KOBAYASHI	06/23/2023
HIROSHI EGUCHI	06/26/2023
TAKESHI TAMADA	06/26/2023

#### **RECEIVING PARTY DATA**

Name:	KONICA MINOLTA, INC.
Street Address:	2-7-2 MARUNOUCHI, CHIYODA-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	100-7015

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	18226296

#### **CORRESPONDENCE DATA**

Fax Number:

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.

**Email:** millar@rankinhill.com

Correspondent Name: RANKIN, HILL & CLARK LLP
Address Line 1: 23755 LORAIN ROAD, SUITE 200
Address Line 4: NORTH OLMSTED, OHIO 44070

ATTORNEY DOCKET NUMBER:	KNC-54705
NAME OF SUBMITTER:	KAZUTO ISHIHARA
SIGNATURE:	/Kazuto Ishihara/
DATE SIGNED:	08/02/2023

#### **Total Attachments: 4**

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PATENT 508045747 REEL: 064471 FRAME: 0448

Attorney Docket No.: Client Ref. No.: B53405US01

### DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of Invention	IMAGE FORMING APPARATUS, DETECTION METHOD, AND PROGRAM
As the below	named inventor, I hereby declare that;
This declarati	The attached application, or
	United States application or PCT international application number  filed on
The above-ide	antified application was made or authorized to be made by me.
	t am the original inventor or an original joint inventor of a claimed invention in the application.  KONICA MINOLTA, INC. , with offices at a supplication of the control o
acquiring all	interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar in which may be granted therefor in the United States and in any and all foreign countries;
of which are legal represent in and to any any and all pr Convention R adheres, and t United States	FORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency hereby acknowledged. I by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its successors, assigns, and tatives, the entire right, title and interest in said invention, said application, including any divisions and continuations thereof, and and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to iority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American elating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America to any other henefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue said United States Letters ASSIONEE, as the assignee of the whole right, title and interest thereto;
designee, as remuneration,	agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Parent of ites and countries foreign thereto;
application fo	agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for fureign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters may be granted for my aforesaid invention, as said ASSIGNEE thereof shall hereafter require and prepare at its own expense;
And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;	
And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.	
	owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 100) by fine or imprisonment of five (5) years, or both.
LEGAL NAM	IE OF INVENTOR
Inventor:	AKIHIRO HAYASHI — — — — — — — — — — — — — — — — — — —

PATENT REEL: 064471 FRAME: 0449

Attorney Docket No.: Client Ref. No.: B53405US01

# DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

IMAGE FORMING APPARATUS, DETECTION METHOD, AND PROGRAM invention	
As the below named inventor, I hereby declare that:	
This declaration s directed to:  The attached application, or	
United States application or PCT international application number	
filed on	
The above-identified application was made or authorized to be made by me.	
believe that I am the original inventor or an original joint inventor of a claimed invention in the application, WHEREAS, KONICA MINOLTA, INC. with offices a	£
WHEREAS, KONICA MINOLTA, INC.  2-7-2, Marunouchi, Chiyoda-ku, Tokyo, JAPAN 100-7015 (hereinafter referred to as ASSIGNEE), is desirous o	F
equiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similal egal protection which may be granted therefor in the United States and in any and all foreign countries;	ť
NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged. I by these presents do hereby assign, sell and transfer unto said ASSIONEE, its successors, assigns, and legal representatives, the entire right, title and interest in said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue said United States Letters Patent to said ASSIGNEE, as the assignee of the whole right, title and interest thereto;	
And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its designee, as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;	
and I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for pplication for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letter return to the granted for my aforesaid invention, as said ASSIGNEE thereof shall be reafter require and prepare at its own expense;	
And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;	
And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.	
hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of more than five (5) years, or both.	£
LEGAL NAME OF INVENTOR	
oventor: YUJI KOBAYASHI Date: June 73, 2023	
lignature: <u>Algis McAryaMi</u>	

PATENT REEL: 064471 FRAME: 0450

Attorney Docket No.: Client Ref. No.: B53405US01

# DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of Invention	IMAGE FORMING APPARATUS, DETECTION METHOD, AND PROGRAM
As the below	named inventor, I hereby declare that:
This declaration is directed to:	The attached application, or
	United States application or PCT international application number
	filed on
	ntified application was made or authorized to be made by me.
	am the original inventor or an original joint inventor of a claimed invention in the application.  KONICA MINOLTA, INC.  , with offices at
•	runouchi, Chiyoda-ku, Tokyo, JAPAN 100-7015 (hereinafter referred to as ASSIGNEE), is desirous of
	nterest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar on which may be granted therefor in the United States and in any and all foreign countries;
of which are legal represent in and to any any and all price Convention Radheres, and tunited States	FORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency hereby acknowledged. I by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its successors, assigns, and satives, the entire right, title and interest in said invention, said application, including any divisions and continuations thereof, and and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to iority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American elating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America or any other benefits accruing or to accrue to me with respect to the filling of applications for patents or securing of patents in the and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue said United States Letters ASSIGNEE, as the assignee of the whole right, title and interest thereto;
designee, as remuneration,	agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of tes and countries foreign thereto;
application for	agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters hay be granted for my aforesaid invention, as said ASSIGNEE thereof shall hereafter require and prepare at its own expense;
And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Petent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;	
And I hereby this assignmen	covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with at and sale.
	owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of five (5) years, or both.
LEGAL NAM	e of inventor
Inventor:	HIROSHI EGUCHI Date: June 26. 2023
Signature:	HIFDSHI FLAVCHI

PATENT REEL: 064471 FRAME: 0451

Attorney Bocket No.: Client Ref. No.: B53405US01

## DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of IM Invention	AGE FORMING APPARATUS, DETECTION METHOD, AND PROGRAM
As the below name	nd inventor, it hereby declare that:
This declaration is directed to:	The attached application, or
	United States application or PCT international application number filed on
The above-identific	ed application was made or authorized to be made by me.
	the original inventor or an original joint inventor of a claimed invention in the application.  ONICA MINOLTA, INC.  , with offices at purchl, Chiyoda-ku, Tokyo, JAPAN 100-7015 (hereinafter referred to as ASSIGNEE), is desirous of strip, to and under said invention, said application disclosing the invention and in to and under any Letters Patent or similar.
2-7-2, Maruno	puchi, Chiyoda-ku, Tokyo, JAPAN 100-7015 (hereinafter referred to as ASSIGNEE), is desirous of
and are are are	st in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar such may be granted therefor in the United States and in any and all foreign countries;
NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged. I by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue said United States Letters Patent to said ASSIGNEE, as the assignee of the whole right, title and interest thereto;	
designee, as ASSI remuneration, in or	e to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its iGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further refer to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of and countries foreign thereto;
application for fore	te to properly execute and deliver and without further remaneration, such necessary or destrable and lawful papers for sign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters be granted for my aforesaid invention, as said ASSIGNEE thereof shall hereafter require and prepare at its own expense;
application, said in	te that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said exention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will be in any interference or litigation related thereto;
And I hereby cover this assignment and	nant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with d sale.
I hereby acknowled not more than five	dge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of (5) years, or both.
LEGAL NAME O	
.www.www	KESHI TAMADA Date: June 26, 2023
Signature:	Jakeshi Jamada

PATENT REEL: 064471 FRAME: 0452

**RECORDED: 08/02/2023**