505696367 09/27/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5743177

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HITOSHI IWATSUKI	09/19/2019
YASUYUKI YAMASHITA	09/19/2019
KIICHI KAMODA	09/19/2019
TOSHIYUKI MUTOH	09/19/2019
YASUTOMO AMAN	09/19/2019
TOSHIYUKI ISEKI	09/20/2019
MITSURU NARUSE	09/19/2019
AKIRA SAITO	09/19/2019
SHINZO HIGUCHI	09/20/2019
SOHICHIROH IIDA	09/21/2019

RECEIVING PARTY DATA

Name:	RICOH COMPANY, LTD.
Street Address:	3-6, NAKAMAGOME 1-CHOME
City:	OHTA-KU, TOKYO
State/Country:	JAPAN
Postal Code:	143-8555

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16184244

CORRESPONDENCE DATA

Fax Number: (703)413-2220

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.

Phone: (703) 413-3000

Email: wsmith@oblon.com

Correspondent Name: OBLON, ET AL.

Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER: 518159US

PATENT REEL: 050520 FRAME: 0324

505696367

WILLIAM SMITH	
/William Smith/	
09/27/2019	
This document serves as an Oath/Declaration (37 CFR 1.63).	
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PATENT REEL: 050520 FRAME: 0325

Title of	PARTICLE FOR SOLID FREEFO	RM F.	ABRICATION, POWDER FOR
Invention	SOLID FREEFORM FABRICATION	I, DEV	VICE FOR MANUFACTURING
	SOLID FREEFORM FABRICA	TION	OBJECT, METHOD OF
	MANUFACTURING SOLID FREE	ORM	FABRICATION OBJECT, AND
	PARTICLE		
As the below named i	nventor, I hereby declare that:		
This declaration	The attached application, or		
is directed to:	United States application or PCT international	applicati	ion 16/184244
filed on	November 8, 2018		
The above-identified a	application was made or authorized to be made	by me.	
I believe that I am the	original inventor or an original joint inventor o	f a claim	ed invention in the application.
	n Company, Ltd.		
143-8555, Japan, is d	(hereinafter referred to as "ASSIGNEE") having places of business at: 3-6, Nakamagome 1-chome, Ohta-ku, Tokyo 143-8555, 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 sun of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, 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 (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) 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.			
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Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me 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 Letters 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.			
	edge that any willful false statement made in the ent of not more than five (5) years, or both.	s declara	ution is punishable under 18 U.S.C. 1001
LEGAL NAME OF I	NVENTOR		
Inventor: HITOSI	HI IWATSUKI	Date:	September 19, 2019
Signature: / Hit	roshi lwatsuki	/	

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

PATENT

Title of	PARTICLE FOR SOLID FREEFORM FABRICATION, POWDER FOR	
Invention	SOLID FREEFORM FABRICATION, DEVICE FOR MANUFACTURING	
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LEGAL NAME OF R	NVENTOR	
Inventor: YASUY	UKI YAMASHITA Date: September 19, 2019	
Signature: / Yasa	uyuki Yamashita	

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

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LEGAL NAME OF I	VENTOR		
Inventor: KIICHI	KAMODA Date: September 19, 2019		
Signature: / Kiic	chi Kamoda /		

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

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LEGAL NAME OF I	NVENTOR	
Inventor: TOSHI	YUKI MUTOH Date: September 19, 2019	
Signature: / Tos.	hiyuki Mutoh	

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

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LEGAL NAME OF I	NVENTOR	
Inventor: YASUT	OMO AMAN Date: September 19, 2019	
Signature: / Yas	utomo Aman /	

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

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LEGAL NAME OF IN	IVENTOR	
Inventor: TOSHIY	UKI ISEKI Date: September 20th, 2019	
Signature: J	shiyukir leelai	

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

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PATENT

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Inventor: MITSU	RU NARUSE Date: September 19, 2019	
Signature: /	Mitsuru Naruse	

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LEGAL NAME OF INVENTOR				
Inventor: AKIRA	SAITO	Date:	September 19, 2019	
Signature:	AKIRA SAITO	/		

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(hereinafter referred to as "ASSIGNEE") having places of business at: 3-6, Nakamagome 1-chome, Ohta-ku, Tokyo 143-8555, 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 sun of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, 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 (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) 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 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 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 had this Assignment and sale not been made. Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me				
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 Letters 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.				
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.				
LEGAL NAME OF INVENTOR				
Inventor: SHIN	ZO HIGUCHI Date: September 20, 2019			
Signature: /	SHINZO HIGUCHI			

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

PATENT

Title of	PARTICLE FOR SOLID FREEFORM FABRICATION, POWDER FOR
Invention	SOLID FREEFORM FABRICATION, DEVICE FOR MANUFACTURING
	SOLID FREEFORM FABRICATION OBJECT, METHOD OF
	MANUFACTURING SOLID FREEFORM FABRICATION OBJECT, AND
	PARTICLE
As the below n	amed inventor, I hereby declare that:
This declaration	n
is directed to:	☑ United States application or PCT international application 16/184244
file	d on November 8, 2018 .
The above-iden	ntified application was made or authorized to be made by me.
I believe that I	am the original inventor or an original joint inventor of a claimed invention in the application.
WHEREAS,	Ricoh Company, Ltd.
143-8555, Japa	erred to as "ASSIGNEE") having places of business at: 3-6, Nakamagome 1-chome, Ohta-ku, Tokyon, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any hat may be granted therefore in the United States and its territorial possessions and in any and all foreign
acknowledged, ASSIGNEE, th all foreign coun relevant interna and to any and	EREFORE, in consideration of the sun of FIVE DOLLARS (\$5.00), the receipt whereof is hereby and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said e full and exclusive right to the said invention in the United States and its territorial possessions and in nitries (including the right to claim priority under the terms of the International Convention and other ational Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in all Letters Patent which may be granted therefor in the United States and its territorial possessions and oreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals
and all foreign of my entire right, and assigns, to	horize and request the Patent Office Officials in the United States and its territorial possessions and any countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same an held by one had this Assignment and sale not been made.
respecting said substitute, renev Patent to be is ASSIGNEE, its	gree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, wal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters sued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said i (his) successors and assigns, to obtain and enforce proper protection for said invention in the United tritorial possessions and in any and all foreign countries.
	cnowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 somment of not more than five (5) years, or both.
LEGAL NAME	OF INVENTOR
Inventor: S	OHICHIROH IIDA Date: Leptember 21, 2019
Signature:	Dokishind Vida

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

PATENT

REEL: 050520 FRAME: 0335

RECORDED: 09/27/2019