503888350 06/24/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3934999

SUBMISSION TYPE:		NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	
CONVEYING PARTY DA	TA		
		Name	Execution Date
MASAKI KATO			06/09/2016
KEISHI HACHIYA			06/09/2016
TATSUYA TANIDA			06/10/2016
KEISUKE MORIKAWA			06/09/2016
YUSUKE AMANO			06/09/2016
RECEIVING PARTY DAT			
Name:		AY CO., LTD.	
Street Address:	1621, Sakazu, Kurashiki-shi		
City:	Okayan	,	
State/Country:	Japan		
Postal Code:	710-080)1	
PROPERTY NUMBERS Total: 1 Property Type		Number	
Application Number:		15108155	
CORRESPONDENCE DA	٩ΤΑ		
Fax Number:		(703)413-2220	
Correspondence will be	sent to	the e-mail address first; if that is unsucce	
Correspondence will be	sent to rovided		
Correspondence will be using a fax number, if p	sent to rovided	the e-mail address first; if that is unsucce ; if that is unsuccessful, it will be sent via	
<i>Correspondence will be using a fax number, if p</i> Phone:	e sent to rovided 	<i>the e-mail address first; if that is unsucce</i> <i>; if that is unsuccessful, it will be sent via</i> (703) 413-3000 <wijegunawardana@oblon.com OBLON, ET AL.</wijegunawardana@oblon.com 	
Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1:	e sent to rovided (<i>the e-mail address first; if that is unsucce</i> <i>; if that is unsuccessful, it will be sent via</i> (703) 413-3000 wijegunawardana@oblon.com OBLON, ET AL. 1940 DUKE STREET	
Correspondence will be using a fax number, if p Phone: Email: Correspondent Name:	e sent to rovided (<i>the e-mail address first; if that is unsucce</i> <i>; if that is unsuccessful, it will be sent via</i> (703) 413-3000 <wijegunawardana@oblon.com OBLON, ET AL.</wijegunawardana@oblon.com 	
Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 4:	e sent to rovided	<i>the e-mail address first; if that is unsucce</i> <i>; if that is unsuccessful, it will be sent via</i> (703) 413-3000 wijegunawardana@oblon.com OBLON, ET AL. 1940 DUKE STREET	
Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 4:	e sent to rovided	the e-mail address first; if that is unsucces; if that is unsuccessful, it will be sent via (703) 413-3000 (wijegunawardana@oblon.com OBLON, ET AL. 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314	
Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NU NAME OF SUBMITTER:	e sent to rovided	the e-mail address first; if that is unsucces; if that is unsuccessful, it will be sent via (703) 413-3000 (wijegunawardana@oblon.com OBLON, ET AL. 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314 473022US99PCT	
Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1:	e sent to rovided	the e-mail address first; if that is unsucces; if that is unsuccessful, it will be sent via (703) 413-3000 (wijegunawardana@oblon.com OBLON, ET AL. 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314 473022US99PCT KASUN WIJEGUNAWARDANA	
Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NU NAME OF SUBMITTER: BIGNATURE:	e sent to rovided	the e-mail address first; if that is unsucces(if that is unsuccessful, it will be sent via(703) 413-3000(wijegunawardana@oblon.comOBLON, ET AL.1940 DUKE STREETALEXANDRIA, VIRGINIA 22314473022US99PCTKASUN WIJEGUNAWARDANA/Kasun Wijegunawardana/	US Mail.

source=473022USAssign#page1.tif	
source=473022USAssign#page2.tif	
source=473022USAssign#page3.tif	
source=473022USAssign#page4.tif	
source=473022USAssign#page5.tif	

.

Title of MODIFIED POLYV Invention THEREPOR	INYL ALCOHOL AND PRODUCTION METHOD
As the below named inventor, I hereby decla	re that:
This declaration 🔲 The attached application	n, or
is directed to: X United States applicatio filed on <u>December 25</u>	n or PCT International application number <u>PCT/JP2014/084212</u> , 2014
The above-identified application was made o	r 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.
7100801 Japan, is desirous of acquiring the	naving places of business at: <u>1621, Sakazu, Kurashiki-shi, Okayama</u> entire right, title and interest in and to said invention and in and to any s in the United States and its territorial possessions and in any and all
acknowledged, and for other good and value said ASSIGNEE, the full and exclusive right and in all foreign countries (including the rig other relevant International Treatles and Arr interest in and to any and all Letters Patent	of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby able consideration, I, by these presents do sell, assign and transfer unto to the said invention in the United States and its territorial possessions ght to claim priority under the terms of the International Convention and angements from the aforesaid application) and the entire right, title and t which may be granted therefor in the United States and its territorial numries and in and to any and all divisions, reissues, continuations,
any and all foreign countries to issue any a assignce of my entire right, title and interest (his) successors and assigns, to the full end	Office Officials in the United States and its territorial possessions and and all of said Letters Patent, when granted, to said ASSIONEE as the in and to the same, for the sole use and behoof of said ASSIONEE, its of the term for which said Letters Patent may be granted, as fully and a me had this Assignment and sale not been made.
respecting said invention, and testify in a continuation, substitute, renewal and reissue all of said Letters Patent to be issued to sa possible to aid said ASSIGNEE, its (his) sa	to said ASSIGNEE or its (his) representatives any facts known to me, my legal proceeding, sign all lawful papers, execute all divisional, applications, execute all necessary assignment papers to cause any and aid ASSIGNEE, make all rightful onths, and, generally do overything necessors and assigns, to obtain and enforce proper protection for said ial possessions and in any and all foreign countries:
I hereby acknowledge that any willful fair by fine or imprisonment of not more than fly	se statement made in this declaration is punishable under 18 U.S.C. 1001 re (5) years, or both.
LEGAL NAME OF INVENTOR	· · · ·
Inventor: Masaki KATO	Date: JUNP, 9, 2016
Signature: Masahi	Hato

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

Title of Invention MODIFIED POLYVINYL ALCOHOL AND PRODUCTION METHOD THEREFOR THEREFOR			
As the below named inventor, I hereby declare that:			
This declaration [] The attached application, or			
is directed to: Inited States application or PCT International application number PCT/JP2014/084212			
The above-identified 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, KURARAY CO., LTD. (hereinafter referred to as "ASSIGNEE") having places of business at: <u>1621, Sakazu, Kurashiki-shi, Okayama</u> <u>7100801 Japan</u> , 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, 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, relesues, 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, excente all divisional, continuation, substitute, renewal and relssue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEB, 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 purishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
LEGAL NAME OF INVENTOR			
Inventor: Keishi HACHIYA Date: June 9, 2016			
signature: Kelshi Hachiya			

OBLON, MCCLELLAND, MAIER & NEUSTAD'T, L.L.P. ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

> PATENT REEL: 039006 FRAME: 0847

MODIFIED POLYVINYL ALCOHOL AND PRODUCTION METHOD THEREFOR

As the below named inventor, I hereby declare that:

This declaration 🔲 The attached application, or

Title of

Invention

Is directed to: United States application or PCT international application number <u>PCT/JP2014/084212</u> filed on December 25, 2014

The above-identified 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, KURARAY CO., LTD.

(hereinafter referred to as "ASSIGNEE") having places of business at: <u>1621, Sakazu, Kurashiki-shi, Okayama</u> <u>7100801 Japan</u>, 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, 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: Tatsuya TANIDA

Date: June 10, 2016

Signature: Jotanya Jonida

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW **1940 DUKE STREET** ALEXANDRIA, VIRGINIA 22314

Title of Invention	MODIFIED POLYVINYL ALCOHOL AND PRODUCTION METHOD THEREFOR	
As the below named inventor, I hereby declare that:		
This declaration [] The attached application, or	
is directed to: D	United States application or PCT international application number <u>PCT/JP2014/084212</u> filed on <u>December 25, 2014</u> .	
The above-identified 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, KURARAY CO., LTD.

(hereinafter referred to as "ASSIGNEE") having places of bushess at: 1621, Sakazu, Kurashiki-shi, Okayama 7100801 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, THEREBORE, in consideration of the sum 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 assignce 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 ASSIGNBE, 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

Date: June 9, 2016

Inventor: Kolsuke MORIKAWA Signature: <u>Keisuke Movilcawa</u>

OBLON, MCCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW

1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314 ł

Title of Invention	MODIFIED POLYVINYL ALCOHOL AND PRODUCTION METHOD THEREFOR			
As the below named	i inventor, I hereby declare that:			
This declaration 🔲	The attached application, or			
is directed to: 🛛 🕅	United States application or PCT international application number <u>PCT/JP2014/084212</u> filed on <u>December 25, 2014</u> .			
The above-identified	d application was made or authorized to be made by me.			
I believe that I am th	he original inventor or an original joint inventor of a claimed invention in the application.			
WHEREAS, KUP				
7100801 Japan., is a	d to as "ASSIGNEE") having places of business at: <u>1621, Sakazu, Kurashiki-shi, Okayama</u> desirous of acquiring the entire right, title and interest in and to said invention and in and to any may be granted therefore in the United States and its territorial possessions and in any and all			
acknowledged, and said ASSIGNEB, th and in all foreign cc other relevant Inter- interest in and to an	ORE, in consideration of the sum of PIVE DOLLARS (\$5.00), the receipt whereof is hereby for other good and valuable consideration, I, by these presents do sell, assign and transfer unto be full and exclusive right to the said invention in the United States and its territorial possessions pointries (including the right to claim priority under the terms of the International Convention and national Treaties and Arrangements from the aforesaid application) and the entire right, title and my and all Letters Patent which may be granted therefor in the United States and its territorial any and all foreign countries and in and to any and all divisions, relissues, continuations, newals thereof.			
any and all foreign assignee of my enth (his) successors and	ze and request the Patent Office Officials in the United States and its territorial possessions and countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the re right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its I assigns, to the full end of the term for which said Letters Patent may be granted, as fully and would have been held by me had this Assignment and sale not been made.			
Further, I agree that I will communicate to said ASSIGNBE 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.				
	ledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001, ment of not more than five (5) years, or both.			
LEGAL NAME OF	INVENTOR			
Inventor: Yusuke	AMANO Date: June 9, 2016			

Yusuke Amano Signature:

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

RECORDED: 06/24/2016