PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2905041

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KENJI IZUHARA	04/01/2014
SHOICHIRO OHTA	04/01/2014
KAZUHIKO ARIMA	04/01/2014
HIROSHI SHIRAISHI	04/01/2014
SHOICHI SUZUKI	04/01/2014
TOMOAKI HOSHINO	03/25/2014
YOSHINORI AZUMA	03/24/2014
JUNYA ONO	03/23/2014

RECEIVING PARTY DATA

Name:	SHINO-TEST CORPORATION	
Street Address: 56, KANDAJIMBOCHO 1-CHOME, CHIYODA-KU		
City:	TOKYO	
State/Country:	JAPAN	
Postal Code:	101-8410	
Name:	SAGA UNIVERSITY	
Street Address:	1, HONJO-MACHI	
City:	SAGA-SHI, SAGA	
State/Country:	JAPAN	
Postal Code:	840-8502	
Name:	KURUME UNIVERSITY	
Street Address:	67, ASAHI-MACHI	
City:	KURUME-SHI, FUKUOKA	
State/Country:	JAPAN	
Postal Code:	830-0011	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14342996

CORRESPONDENCE DATA

Fax Number: (703)205-8050

PATENT

502858444 REEL: 033138 FRAME: 0006

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) 205-8000

Email: mailroom@bskb.com, brian.olive@bskb.com
Correspondent Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP

Address Line 1: P.O. BOX 747

Address Line 4: FALLS CHURCH, VIRGINIA 22040-0747

ATTORNEY DOCKET NUMBER:	4456-0192PUS1
NAME OF SUBMITTER:	BRIAN OLIVE
SIGNATURE:	/brian olive/
DATE SIGNED:	06/19/2014

Total Attachments: 12

source=2014-06-19_Assignment_4456-0192PUS1#page1.tif source=2014-06-19_Assignment_4456-0192PUS1#page2.tif source=2014-06-19_Assignment_4456-0192PUS1#page3.tif source=2014-06-19_Assignment_4456-0192PUS1#page4.tif source=2014-06-19_Assignment_4456-0192PUS1#page5.tif source=2014-06-19_Assignment_4456-0192PUS1#page6.tif source=2014-06-19_Assignment_4456-0192PUS1#page7.tif source=2014-06-19_Assignment_4456-0192PUS1#page8.tif source=2014-06-19_Assignment_4456-0192PUS1#page9.tif source=2014-06-19_Assignment_4456-0192PUS1#page10.tif source=2014-06-19_Assignment_4456-0192PUS1#page11.tif source=2014-06-19_Assignment_4456-0192PUS1#page11.tif source=2014-06-19_Assignment_4456-0192PUS1#page12.tif

PATENT REEL: 033138 FRAME: 0007

United States Patent Rights, or United States Plus all Foreign Patent Rights (Multiple Assignees)

ASSIGNMENT

Application N	o.:	14/342,996	Filed:	March 5, 2014
Insert Name(s) of Inventor(s)	₽	***(Given Name FAMILY NAME (ALL CAPS))* WHEREAS, Kenji IZUHARA, Shoichiro OHT. Tomoaki HOSHINO, Yoshinori AZUMA, Jung (hereinafter designated as the undersigned) has	A, Kazuhiko A ya ONO	
Insert Title of Invention	=>	ANTIBODY CAPABLE OF BINDING TO SPECIFIC REGION OF PERIOSTIN, AND METHOD FOR MEASURING PERIOSTIN USING SAME		
		for which an application for Letters Patent undersigned (except in the case of a provision		States of America has been executed by the
Insert Date of Signing of Appln.	⇔	on March 23, 2014; March 25, 20)14; April 1,	2014 ; and
Insert Names of Assignees	⇔	whereas, SHINO-TEST CORPORATION; and	SAGA UNIVE	RSITY; and KURUME UNIVERSITY
Insert Addresses of Assignees	₽	of 56, Kandajimbocho 1-chome, Chiyoda-ku, Tokyo 1018410, Japan; and 1, Honjo-machi, Saga-shi, Sag 840-8502, Japan; and 67, Asahi-machi, Kurume-shi Fukuoka 8300011, Japan, respectively,		
		their heirs, successors, legal representatives desirous of acquiring the entire right, title and Patent(s) that may be granted therefor in the U	d interest in an	d to said invention and in and to any Letters
Check Box if Appropriate	4	in any foreign countries.		
		NOW, THEREFORE, for good and valuable of the undersigned has (have) sold, assigned an and transfer unto said Assignees the full and America, its territories, dependencies and pos and all Letters Patent(s) which may be grant dependencies and possessions, and if the box any and all divisions, reissues, continuation terms for which the same may be granted	nd transferred, exclusive right sessions and the ted therefor in above is design	and by these presents does (do) sell, assign to the said invention in the United States of ne entire right, title and interest in and to any the United States of America, its territories, nated, in any and all foreign countries; and to
		in equal undivided amounts unless specific un	ndivided amou	nts are listed below:
Ownership Interest	⇔	Assignee 1 (%); Assignee 2 (%); As	signee 3 (%).

BIRCH, STEWART, KOLASCH & BIRCH, LLP

Page 1

Attorney Docket No.: 4456-0192PUS1

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignees may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignees in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of (a) valid United States of America patent(s) or a grant of (a) valid United States of America and any foreign patent(s) to the Assignees and to vest all rights therein hereby conveyed to said Assignees as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patent(s) resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignees, as Assignees of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	Apr. 1st _ 2014	Name of Inventor	Bilde
Date	· * *		Constitution and the second se
Date	4/1/2014	Name of Inventor	(Signature) Shorthiro OHTA
Date	4-1-2014	Name of Inventor	Kaznhiko Anho
			(Signature) Kazuhiko aRIMA
Date		Name of Inventor	(Signature) Hiroshi SHIRAISHI
Date	4-1-2014	Name of Inventor	Signature) Shoichi SUZUKI
Date		Name of Inventor	(Signature) Tomoaki HOSHINO

BIRCH, STEWART, KOLASCH & BIRCH, LLP

Page 2

Attorney Docket No. 4456-0192PUS1

Date	Name of Inventor	
		(Signature) Yoshinori AZUMA
Date	Name of Inventor	
		(Signature) Junya ONO

UNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS
(MULTIPLE ASSIGNEES)

ASSIGNMENT

Application No	0.;	14/342,996	Filed:	March 5, 2014
Insert Name(s) of Inventor(s)	ಘ	Tomoaki HOSHINO, Yoshinori AZUM	o OHTA, Kazuhiko ARII IA, Junya ONO	MA, Hiroshi SHIRAISHI, Shoichi SUZUKI,
Insert Title of Invention	⇨	ANTIBODY CAPABLE OF BINDING MEASURING PERIOSTIN USING SAM		N OF PERIOSTIN, AND METHOD FOR
		for which an application for Letters I undersigned (except in the case of a pro-	Patent of the United Sta ovisional application)	ates of America has been executed by the
Insert Date of Signing of Appln.	\$	on March 23, 2014; March	25, 2014; April 1, 20	014; and
Insert Names of Assignces	⇔	whereas, SHINO-TEST CORPORATIO	N; and SAGA UNIVERS	SITY; and KURUME UNIVERSITY
Insert Addresses of Assignees	⇔	of 56, Kandajimbocho 1-chome, Chiyo 840-8502, Japan; and 67, Asahi-machi, I	oda-ku, Tokyo 1018410, Kurume-shi Fukuoka 830	Japan; and 1, Honjo-machi, Saga-shi, Saga 00011, Japan, respectively,
		their heirs, successors, legal represer desirous of acquiring the entire right, Patent(s) that may be granted therefor	title and interest in and	ereinafter designated as the Assignees) is to said invention and in and to any Letters America and
Check Box if Appropriate	⇔	in any foreign countries.		
		the undersigned has (have) sold, assigned transfer unto said Assignees the famerica, its territories, dependencies and all Letters Patent(s) which may be dependencies and possessions, and if it	gned and transferred, a ull and exclusive right the and possessions and the pe granted therefor in the box above is designan autions, conversions a	e receipt of which is hereby acknowledged, nd by these presents does (do) sell, assign to the said invention in the United States of entire right, title and interest in and to any he United States of America, its territories, ated, in any and all foreign countries; and to and extensions thereof for the full term or
		in equal undivided amounts unless sp	ecific undivided amount	ts are listed below:
Ownership Interest	-	Assignee 1 (%); Assignee 2 (_%); Assignee 3 (%	o).

Attorney Docket No.: 4456-0192FUS1

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignees may deem necessary or expedient.

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The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of (a) valid United States of America patent(s) or a grant of (a) valid United States of America and any foreign patent(s) to the Assignees and to vest all rights therein hereby conveyed to said Assignees as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patent(s) resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignees, as Assignees of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date _		Name of Inventor	(Signature) Kenji IZUHARA	
Date _		Name of Inventor	(Signature) Shoichiro OHTA	
Date _		Name of Inventor	(Signature) Kazuhiko ARIMA	
Date _	4/1/2014	Name of Inventor	Signature) Hiroshi SHIRAISHI	
Date _		Name of Inventor	(Signature) Shoichi SUZUKI	
Date _		Name of Inventor	(Signature) Tomoaki HOSHINO	
			•	
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Page 2

BIRCH, STEWART, KOLASCH & BIRCH, LLP

PATENT REEL: 033138 FRAME: 0012

Attorney Docket No. 4456-0192PUS1

Date	Name of Inventor	
	(Signature) Yoshinori AZUMA	
Date	Name of Inventor	
	(Signature) Junya ONO	

UNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS
(MULTIPLE ASSIGNEES)

ASSIGNMENT

Application N	о.:	14/342,996	Filed:	March 5, 2014	
Insert Name(s) of Inventor(s)	₽	WHEREAS, Kenji IZUHARA, Shoichiro OH Tomoaki HOSHINO, Yoshinori AZUMA, Ju (hereinafter designated as the undersigned) l	rA, Kazuhiko AR 1ya ONO		
Insert Title of Invention	⇔	ANTIBODY CAPABLE OF BINDING TO MEASURING PERIOSTIN USING SAME	BODY CAPABLE OF BINDING TO SPECIFIC REGION OF PERIOSTIN, AND METHOD FOI URING PERIOSTIN USING SAME		
		for which an application for Letters Patent undersigned (except in the case of a provision		tates of America has been executed by the	
Insert Date of Signing of Appln.	⇔	on March 23, 2014; March 25	, 2014; April	1, 2014 ; and	
Insert Names of Assignees	¢	whereas, SHINO-TEST CORPORATION; and	I SAGA UNIVER	SITY; and KURUME UNIVERSITY	
Insert Addresses of Assignees	¢	of 56, Kandajimbocho 1-chome, Chiyoda-ku 840-8502, Japan; and 67, Asahi-machi, Kurun			
		their heirs, successors, legal representative desirous of acquiring the entire right, title ar Patent(s) that may be granted therefor in the	id interest in and	to said invention and in and to any Letters	
Check Box if Appropriate	⇔	in any foreign countries.			
		NOW, THEREFORE, for good and valuable the undersigned has (have) sold, assigned a and transfer unto said Assignees the full and America, its territories, dependencies and po and all Letters Patent(s) which may be grar dependencies and possessions, and if the boarny and all divisions, reissues, continuation terms for which the same may be granted	nd transferred, a l exclusive right ssessions and the ted therefor in t above is designa	and by these presents does (do) sell, assign to the said invention in the United States of e entire right, title and interest in and to any he United States of America, its territories, ated, in any and all foreign countries; and to	
•		in equal undivided amounts unless specific u	ndivided amoun	ts are listed below:	
Ownership Interest	⇔	Assignee 1 (%); Assignee 2 (%); As	ssignee 3 (%	6).	

BIRCH, STEWART, KOLASCH & BIRCH, LLP

Page 1

Attorney Docket No.: 4456-0192PUS1

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In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	Name of Inventor	(Signature) Kenji IZUHARA	
Date	Name of Inventor	(Signature) Shoichiro OHTA	
Date	Name of Inventor	(Signature) Kazuhiko ARIMA	
Date	Name of Inventor	(Signature) Hiroshi SHIRAISHI	
Date	Name of Inventor	(Signature) Shoichi SUZUKI	
Date 3/25/2014	Name of Inventor	(Signature) Tomoaki HOSHINO	ro, Mo
PURCLE OFFICE AND MOLECULE PIRCH LIP		Page 2	BSKB-ASSIGN-MULTI (09-12)

Page 2

BIRCH, STEWART, KOLASCH & BIRCH, LLP

PATENT REEL: 033138 FRAME: 0015

Attorney Docket No. 4456-0192PUS1

Date	Name of Inventor	
	(Signature) Yoshinori AZUMA	
Date	Name of Inventor	
	(Signature) Junya ONO	

UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS (MULTIPLE ASSIGNEES)

ASSIGNMENT

Application No).:	14/342,996	Filed:	March 5, 2014	-
insert Name(s) of Inventor(s)	=>	""(Given Name FAMILY NAME (ALL CAPS))" WHEREAS, Kenji IZUHARA, Shoichiro OHTA Tomoaki HOSHINO, Yoshinori AZUMA, Juny (hereinafter designated as the undersigned) ha	i, Kazuhiko ARIMA a ONO		
Insert Title of Invention	⇔	ANTIBODY CAPABLE OF BINDING TO SI MEASURING PERIOSTIN USING SAME	PECIFIC REGION	OF PERIOSTIN, AND METHOD FOR	ž.
		for which an application for Letters Patent c undersigned (except in the case of a provision	of the United States of application)	s of America has been executed by the	e
Insert Date of Signing of Appln.	r)	on March 23, 2014; March 25,	2014; April 1,	2014 ; and	d
Insert Names of Assignees	⇔	whereas, SHINO-TEST CORPORATION; and	SAGA UNIVERSIT	Y; and KURUME UNIVERSITY	
Insert Addresses of Assignees	\(\phi\)	of 56, Kandajimbocho 1-chome, Chiyoda-ku, 840-8502, Japan; and 67, Asahi-machi, Kurume	Tokyo 1018410, Jaj 2-shi Fukuoka 83000	pan; and 1, Honjo-machi, Saga-shi, Sag 011, Japan, respectively,	a
		their heirs, successors, legal representatives desirous of acquiring the entire right, title and Patent(s) that may be granted therefor in the U	d interest in and to	said invention and in and to any Letter	is rs
Check Box if Appropriate	=	in any foreign countries.			
		NOW, THEREFORE, for good and valuable of the undersigned has (have) sold, assigned an and transfer unto said Assignees the full and America, its territories, dependencies and pos and all Letters Patent(s) which may be grant dependencies and possessions, and if the box any and all divisions, reissues, continuation terms for which the same may be granted	nd transferred, and exclusive right to essessions and the ented therefor in the above is designate	I by these presents does (do) sell, assig the said invention in the United States of hire right, title and interest in and to ar United States of America, its territoried, in any and all foreign countries; and	of ny ss, to
•		in equal undivided amounts unless specific u	ndivided amounts	are listed below:	
Ownership Interest	-	P Assignee 1 (%); Assignee 2 (%); As	signee 3 (%).		
BIRCH, STEW	AR.	r, KOLASCH & BIRCH, LLP Pag	re1	BSKB-ASSIGN-MULTI (09 GMM/GMM/n	

PATENT REEL: 033138 FRAME: 0017

Attorney Docket No.: 4456-0192PUS1

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Date	Name of Inventor	(Signature) Kenji IZUHARA
Date	Name of Inventor	(Signature) Shoichiro OHTA
Date	Name of Inventor	(Signature) Kazuhiko ARIMA
Date	Name of Inventor	(Signature) Hiroshi SHIRAISHI
Date	Name of Inventor	(Signature) Shoichi SUZUKI
Date	Name of _ Inventor	(Signature) Tomoaki HOSHINO

Attorney Docket No. 4456-0192PUS1

Date 03/24/2014 Name of Inventor Joshinoi azuma (Signature) Yoshinori AZUMA

Date 03/23/2014

Name of Inventor (Signature) Junya ONO

BIRCH, STEWART, KOLASCH & BIRCH, LLP

Page 3

PATENT REEL: 033138 FRAME: 0019

RECORDED: 06/19/2014