PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3148689

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KAZUNARI AKIYOSHI	11/21/2014
HIROSHI KIYONO	12/02/2014
YOSHIKAZU YUKI	12/02/2014
TOMONORI NOCHI	11/25/2014

RECEIVING PARTY DATA

Name: NATIONAL UNIVERSITY CORPORATION TOKYO MEDICAL AND DE UNIVERSITY	
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State/Country:	JAPAN
Postal Code:	113-8510

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14478127

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	119244-00072
NAME OF SUBMITTER:	BASIL S. KRIKELIS
SIGNATURE:	/Basil S. Krikelis/
DATE SIGNED:	12/16/2014

Total Attachments: 6

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PATENT REEL: 034512 FRAME: 0957

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> PATENT REEL: 034512 FRAME: 0958

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ASSIGNMENT - Patent Application Docket Number: 119244-00072					
Whereas, the Assignor, comprising the following named inventors:					
ASSIGNOR(s)/ INVENTOR(s)	1. Kazunari Akiyoshi c/o Nati, Univ. Gorp. Tokyo Med. and Dental Univ., 5-45, Yushima 1-chome. Bunkyo-ku, Tokyo 113-8510 Japan		2. Hiroshi Kiyono 1-8-3-1210, Otowa, Bunkyo-ku, Tokyo 112-0013 Japan		
INVENTOR(S)	3. Yoshikazu Yuki Ikenohatashukusha RA16, Tokyo 113-0033 Japan	7-3-1, Hongo, Bunkyo-ku.	4. Tomonori Nochi 305 Copperline Drive, Apt Q, Chapel Hill, North Carolina 27516 USA		
made an invention	entitled: Mucosal V	accine Using Cation	ic Nanogel		
(Select one of the fo 	erewith; or ne U.S. Patent and Tra nt Application Serial No	demark Office on <u>Se</u> o.: <u>14/478,127;</u> or	otember 5, 2014,		
was filed in the as Provisional	e U.S. Patent and Trad Application Serial No	demark Office on, ·			
ASSIGNEE (Full Name and Add	5-45, Yushin	na 1-Chome, Bunkyo	Tokyo Medical and Dental University o-Ku		
the world, and all rig	ing the entire right, title ht, title and interest in, ries throughout the wo	, to and under any and	the invention throughout the United States and display all Letters Patent related thereto in the United		
FOR GOOD and VA	LUABLE CONSIDERAIGNORS, intending to	ATION, the full receipt be legally bound, do	t and sufficiency of which are hereby hereby:		
AUTHORIZE said A application when the	SSIGNEE, or its represse se are known;	sentatives to insert ab	pove the filing date and application number of the		
United States and its disclosed in the about the full earne would have be-	possessions and terri re-identified patent app ted to, all provisionals rations, reissues and a foreign countries on the nich have been or sha and of the term or terms and held by the undersi	itories and all foreign plication, and, in and to non-provisionals, diventions for the invention; all original be issued in the Units for which the patents aned ASSIGNOR(S)	thole and entire right, title and interest for the countries in and to the invention which is to any and all patent applications related thereto visionals, continuations, continuations-in-part, or patent which have been or shall be filed in the raissued and reexamined patents and rait, reissued and reexamined patents and raited States and all foreign countries on the (s) may be granted, as fully and entirely as the had this Agreement not been made; and fent application under any treaty, convention or		

Page 1 of 2 Updated 9/2013 AUTHORIZE and REQUEST the issuing authority to issue any and all United States and foreign patents granted on the invention to ASSIGNEE;

WARRANT and REPRESENT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by ASSIGNORS, and that the full right to convey the same as herein expressed is possessed by ASSIGNORS;

AGREE and UNDERTAKE, when requested and at the expense of ASSIGNEE, to carry out in good faith the intent and purpose of this Assignment, ASSIGNORS will execute all provisionals, non-provisionals, divisionals, continuations, continuations, in-part, substitutes, reexaminations, reissues, and all other patent applications on the invention; execute all lawful oaths, declarations, assignments, power of attorney and other papers; communicate to ASSIGNEE all facts known to ASSIGNORS relating to the invention and the history thereof; and generally do everything possible which ASSIGNEE shall consider desirable for vesting title to the invention in ASSIGNEE, and for securing, maintaining and enforcing proper patent protection for the invention; all without further compensation to ASSIGNORS;

TO BE BINDING on the heirs, assigns, representatives and successors of ASSIGNORS and extending to the successors, assigns, and nominees of ASSIGNEE.

		Typed or Printed Name	Signature	Date
	1.	Kazunari Akiyoshi	Kazımai Shyoshi	Nov. 2/ 2014
SIGNATURE	2.	Hiroshi Kiyono		
	3.	Yoshikazu Yuki		
	4.	Tomonori Nochi		

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	3. Yoshikazu Yuki Ikenchatashukusha RA16, 7-3-1, Hongo, Bunkyo-ku. Tokyo 113-0033 Japan	4. Tomonori Nochi 305 Copperline Drive, Apt Q, Chapel Hill, North Carolina 27516 USA			
made an invention	n entitled: Mucosal Vaccine Using Cationi	c Nanogel			
for which an applic	cation for Letters Patent of the United States:				
(Select one of the fo	•				
	the U.S. Patent and Trademark Office on Sep	Stamber 5 - 2014			
	ent Application Serial No.: 14/478,127; or	<u> </u>			
was filed in the as Provisional	was filed in the U.S. Patent and Trademark Office on , as Provisional Application Serial No				
ASSIGNEE (Full Name and Add	ASSIGNEE (Full Name and Address) National University Corporation Tokyo Medical and Dental University 5-45, Yushima 1-Chome, Bunkyo-Ku Tokyo, JP 113-8510				
the world, and all rig	iring the entire right, title and interest in and to ght, title and interest in, to and under any and tries throughout the world;	o the invention throughout the United States and all Letters Patent related thereto in the United			
FOR GOOD and VA acknowledged, ASS	ALUABLE CONSIDERATION, the full receipt SIGNORS, intending to be legally bound, do h	and sufficiency of which are hereby nereby:			
AUTHORIZE said ASSIGNEE, or its representatives to insert above the filing date and application number of the application when these are known;					
United States and its disclosed in the about including, but not lim substitutes, reexamit United States and all extensions thereof w	nited to, all provisionals, non-provisionals, divinations, reissues and all other applications followers, reissues and all other applications followers, all origination have been or shall be issued in the Unit	countries in and to the invention which is any and all patent applications related thereto isionals, continuations, continuations-in-part, or patent which have been or shall be filed in the al, reissued and reexamined patents and			

Page 1 of 2 Updated 9/2013 AUTHORIZE and REQUEST the issuing authority to issue any and all United States and foreign patents granted on the Invention to ASSIGNEE;

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·	-,	Typed or Printed Name	Signature	Date
	1.	Kazunari Akiyoshi		
SIGNATURE	2.	Hiroshi Kiyono	A PANO	Dec. Lud, 201
	3.	Yoshikazu Yuki	Josh Jaf J	Dec 2 , 20/9
	4.	Tomonori Nochi		

	ASSIGNMENT - Patent Application Docket Number: 119244-00072					
	Whereas, the Assignor, comprising the following named inventors:					
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1	made an invention	entitled	: Mucosal Vaccine Using Cationic	> Nanogel		
	for which an applic (Select one of the fol	ation fo	Letters Patent of the United States:			
- 1	☐ is attached h		or	•		
- 1	was filed in the U.S. Patent and Trademark Office on <u>September 5, 2014</u> , as U.S. Patent Application Serial No.: <u>14/478,127</u> ; or					
[was filed in the U.S. Patent and Trademark Office on , as Provisional Application Serial No					
ASSIGNEE (Full Name and Address) National University Corporation Tokyo 5-45, Yushima 1-Chome, Bunkyo-Ku Tokyo, JP 113-8510			5-45, Yushima 1-Chome, Bunkyo			
th	is desirous of acquiring the entire right, title and interest in and to the invention throughout the United States and the world, and all right, title and interest in, to and under any and all Letters Patent related thereto in the United States and all countries throughout the world;					
F	FOR GOOD and VALUABLE CONSIDERATION, the full receipt and sufficiency of which are hereby acknowledged, ASSIGNORS, intending to be legally bound, do hereby:					
ar Al	AUTHORIZE said ASSIGNEE, or its representatives to insert above the filing date and application number of the application when these are known;					
Undis ind su Un exi inv sai	nited States and its solosed in the abovelong, but not limit bstitutes, reexaminated States and all tensions thereof when the full erne would have been to be sold the sold the sold the been to be sold the sold	posses re-identi ited to, a lations, foreign hich hav and of the	sions and territories and all foreign of fied patent application, and, in and to all provisionals, non-provisionals, divinated reissues and all other applications for countries on the invention; all originate to been or shall be issued in the United term or terms for which the patent (should be to the undersigned ASSIGNOR(S) here	note and entire right, title and interest for the countries in and to the invention which is any and all patent applications related thereto sionals, continuations, continuations-in-part, in patent which have been or shall be filed in the all, reissued and reexamined patents and led States and all foreign countries on the so may be granted, as fully and entirely as the ad this Agreement not been made; and lent application under any treaty, convention or		

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	3. Yoshikazu Yuki		
	4. Tomonori Nochi	Mocki	11/25/14

Page 2 of 2

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