01/18/2018 504734550

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4781276

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HIDENORI OTSUKA	12/15/2017
DAISUKE MATSUKUMA	11/09/2017

RECEIVING PARTY DATA

Name:	TOKYO UNIVERSITY OF SCIENCE FOUNDATION	
Street Address:	1-3, KAGURAZAKA	
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City:	TOKYO	
State/Country:	JAPAN	
Postal Code:	1628601	
Name:	3-D MATRIX, LTD	
Street Address:	2-4, KOJIMACHI 3-CHOME	
Internal Address:	CHIYODA-KU	
City:	TOKYO	
State/Country:	JAPAN	
Postal Code:	1020083	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15526633

CORRESPONDENCE DATA

Fax Number: (617)310-9000

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: 617.439.2000 Email: kmay@nutter.com

Correspondent Name: NUTTER MCLENNEN & FISH LLP Address Line 1: 155 SEAPORT BOULEVARD

Address Line 4: BOSTON, MASSACHUSETTS 02210

ATTORNEY DOCKET NUMBER:	117146-109
NAME OF SUBMITTER:	JOHN J. PENNY

PATENT REEL: 044652 FRAME: 0115 504734550

SIGNATURE:	/JOHN J. PENNY/
DATE SIGNED:	01/18/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 4

source=117146-109 - Combined Declaration and Assignment OTSUKA - Tokyo U (signed))#page1.tif source=117146-109 - Combined Declaration and Assignment OTSUKA - Tokyo U (signed))#page2.tif source=117146-109 - Combined Declaration and Assignment MATSUKUMA - Tokyo U (signed))#page1.tif source=117146-109 - Combined Declaration and Assignment MATSUKUMA - Tokyo U (signed))#page2.tif

PATENT REEL: 044652 FRAME: 0116

Attorney Docket No.: <u>117146-109</u>

COMBINEI	D DECLARATION AND ASSIGNMENT
Title of Invention: SYNTHESIS OF NANO A APPLICATION THEREOF TO PROTEIN DELIV	AGGREGATE OF CHITOSAN MODIFIED BY SELF-ASSEMBLING PEPTIDE AND YERY
This declaration and assignment is directed to the a	application shown below (the "Application"):
	The attached or filed herewith application of (list of named inventors)
or	
	The United States application or PCT international application number 15/526,633 filed on May 12, 2017.
Declaration	
As the below named inventor, I hereby de-	clare that:
The above-identified application ("Applic	ation") was made or authorized by me.
I believe that I am the original inventor or	an original joint inventor of a claimed invention or discovery in the Application.
	ents of the Application, including the claims, and I acknowledge the duty to disclose fined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of this
	se statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or oth for filings of this Application in the United States of America.
Assignment	
To	okyo University of Science Foundation 1-3, Kagurazaka Shinjuku-ku, Tokyo 1628601 JAPAN
	and
	3-D Matrix, Ltd 2-4, Kojimachi 3-chome Chiyoda-ku, Tokyo 1020083 JAPAN
I hereby acknowledge that I have assigne	READY HAVE A SEPARATE ASSIGNMENT TO ATTACH d the above-identified invention by previous assignment (attached hereto) to Assignee IS Patent Office and I confirm I have and do assign and transfer:
or	
For good and valuable consideration, the sand transferred to Assignee:	sufficiency of which is acknowledged, I hereby assign and transfer and/or have assigned
	he Application, including all priority rights for other countries arising therefrom and the ions or discoveries therein disclosed, and any and all Letters Patent of the United States,
	Page 1 of 2

PATENT

REEL: 044652 FRAME: 0117

Attorney Docket No.:117146-109

European Patent Office and of all other countries, which may be granted for such inventions or discoveries, or any of them, all such inventions or discoveries and all rights in such Application including any and all provisionals, substitutions, divisions, and continuations thereof, and to all Letters Patent that may be granted for said inventions and discoveries, and in and to all extensions, supplementary protection certificates, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I shall execute all papers necessary in connection with any litigation or any other judicial proceeding in the United States or other country, or any administrative proceeding in the United States Patent and Trademark Office, European Patent Office, any other patent office, or under the Patent Cooperation Treaty concerning the Application(s) or any continuation, divisional, or reissue applications thereof, or any reexamination of any such applications, or any Letters Patent issued therefrom or any patent term extensions or supplementary protection certificates of any such applications and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such litigation or proceeding.

I shall execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

Hidenori Otsuka	Dec. 15, 2017
Signature	Date

LEGAL NAME OF INVENTOR: Hidenori Otsuka

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Page 2 of 2

Attorney Docket No.: 1

		Anomey Docket No.: 117146-109
COMB	SINED	DECLARATION AND ASSIGNMENT
Title of Invention: SYNTHESIS OF NA APPLICATION THEREOF TO PROTEIN 1	ANO AG DELIVE	GGREGATE OF CHITOSAN MODIFIED BY SELF-ASSEMBLING PEPTIDE AND CRY
This declaration and assignment is directed t	to the app	plication shown below (the "Application"):
		The attached or filed herewith application of (list of named inventors)
	or	
	\boxtimes	The United States application or PCT international application number 15/526,633 filed on May 12, 2017
Declaration		
As the below named inventor, I her	reby decl	are that:
The above-identified application (".	Applicat	ion") was made or authorized by me.
I believe that I am the original inve	entor or a	n original joint inventor of a claimed invention or discovery in the Application.
	y as defir	nts of the Application, including the claims, and I acknowledge the duty to disclose ned in Title 37, the United States Code of Federal Regulations, §1.56 for filings of this
		e statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or for filings of this Application in the United States of America.
Assignment		
	Tok	yo University of Science Foundation 1-3, Kagurazaka Shinjuku-ku, Tokyo 1628601 JAPAN
		and
		3-D Matrix, Ltd 2-4, Kojimachi 3-chome Chiyoda-ku, Tokyo 1020083 JAPAN
		the above-identified invention by previous assignment (attached hereto) to Assignee Patent Office and I confirm I have and do assign and transfer:
or		
For good and valuable consideration and transferred to Assignee:	on, the su	fficiency of which is acknowledged, I hereby assign and transfer and/or have assigned
right to claim priority to the Application, all	invention	e Application, including all priority rights for other countries arising therefrom and the ns or discoveries therein disclosed, and any and all Letters Patent of the United States, which may be granted for such inventions or discoveries, or any of them, all such
		Page 1 of 2

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Attorney Docket No.: 117146-109

inventions or discoveries and all rights in such Application including any and all provisionals, substitutions, divisions, and continuations thereof, and to all Letters Patent that may be granted for said inventions and discoveries, and in and to all extensions, supplementary protection certificates, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I shall execute all papers necessary in connection with any litigation or any other judicial proceeding in the United States or other country, or any administrative proceeding in the United States Patent and Trademark Office, European Patent Office, any other patent office, or under the Patent Cooperation Treaty concerning the Application(s) or any continuation, divisional, or reissue applications thereof, or any reexamination of any such applications, or any Letters Patent issued therefrom or any patent term extensions or supplementary protection certificates of any such applications and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such litigation or proceeding.

I shall execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

LEGAL NAME OF INVENTOR: Daisuke Matsukuma			
November 9, 2017 Date			

Page 2 of 2