

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JAMES J CHOU	07/23/2012
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13090892
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ATTORNEY DOCKET NUMBER:	D0504.70053US03
NAME OF SUBMITTER:	ASHLEY A CERRONE
Signature:	/ASHLEY A. CERRONE/
Date:	12/11/2013

CH \$40.00 13090892

Total Attachments: 4

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**PATENT**

**REEL: 031755 FRAME: 0741**

**ASSIGNMENT BY INVENTORS**

**THIS ASSIGNMENT**, made by James J. Chou (hereinafter referred to as Assignor), residing at 157 Pleasant Street, Unit 307, Cambridge, MA 02139;

**WHEREAS**, Assignor has invented certain new and useful improvements in NUCLEIC ACID NANOTUBE LIQUID CRYSTALS AND USE FOR NMR STRUCTURE DETERMINATION OF MEMBRANE PROTEINS, set forth in a Patent application for Letters Patent of the United States, filed on April 3, 2007, as U.S. Application No. 11/732,352, and issued on April 21, 2011, as U.S. Patent No. 7,951,596; and

**WHEREAS**, President and Fellows of Harvard College, a Corporation organized under and pursuant to the laws of Massachusetts having its principal place of business at 17 Quincy Street, Cambridge, Massachusetts 02138 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

**NOW, THEREFORE**, for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignor, had this sale and assignment not been made.

AND for the same consideration, Assignor hereby represents and warrants to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignor is the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignor hereby covenants and agrees to and with Assignee, its successors, legal representatives and assigns, that Assignor will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignor hereby requests the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignor hereby grants the following individuals 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 United States Patent and Trademark Office for recordation of this document:

FROM : CHOU LAB

FAX NO. : 617-432-2921


Jul. 23 2012 02:37PM P3

EDWARDS WILDMAN PALMER LLP

All practitioners at Customer Number 21874

AND Assignor acknowledges an obligation of assignment of this invention to  
Assignee at the time the invention was made.

PATENT  
REEL: 028792 FRAME: 0298  
PATENT  
REEL: 031755 FRAME: 0744

  
James J. Chou

Date: July 23, 2012

United States of America

State of

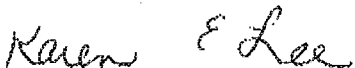
Massachusetts

ss.: 091-68-6814

County of

Suffolk

On this 23<sup>rd</sup> day of July, 2012, before me  
personally came James J. Chou, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

  
Notary Public

