

## PATENT ASSIGNMENT COVER SHEET

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<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DAVID TIRRELL	04/06/1999
<b>RECEIVING PARTY DATA</b>	
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<b>Property Type</b>	<b>Number</b>
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<b>NAME OF SUBMITTER:</b>	GEORGE E. RENZONI
<b>SIGNATURE:</b>	/GEORGE E. RENZONI/
<b>DATE SIGNED:</b>	02/05/2015
<b>Total Attachments: 3</b>	
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## ASSIGNMENT

I, David Tirrell of 714 Arden Road, Pasadena, California 91106, in consideration of Ten Dollars and other valuable consideration paid to me by University of Massachusetts, a corporation of Massachusetts, having its principal place of business at 18 Tremont Street, Suite 800, Boston, Massachusetts 02108, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said University of Massachusetts, its successors and assigns, the entire interest for the United States of America and its territories and all foreign countries and jurisdictions, including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in "ENHANCED TRANSPORT USING MEMBRANE DISRUPTIVE AGENTS" described in U.S. Serial No. 09/226,044 filed in the United States Patent and Trademark Office on January 5, 1999, by Allan S. Hoffman, Patrick Stayton, Oliver W. Press, David Tirrell, Niren Murthy, Chantal Lackey, Lawrence A. Crum, Pierre D. Mourad and Tyrone M. Porter, which claims priority to provisional application U.S. Serial No. 60/070,411 filed in the United States Patent and Trademark Office on January 5, 1998, by Allan S. Hoffman, Patrick Stayton, Oliver Press, David Tirrell, Niren Murthy, and Chantal Lackey, and in all Letters Patent of the United States and its territories and all foreign countries and jurisdictions which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuation, continuation-in-part, reissue or other applications based in whole or in part thereon. And I agree, for myself and my executor and administrator, with said corporation and its successors and assigns but at its or their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and its territories and in all other foreign countries and jurisdictions to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.



**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California

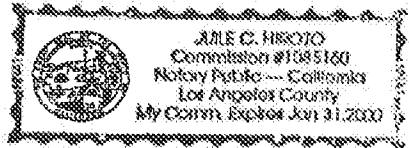
County of Los Angeles } ss.

On 6 April 1999, before me, Julie C. Hiroto, notary public

personally appeared David Tirrell

personally known to me  
 proved to me on the basis of satisfactory evidence

to be the person~~(s)~~ whose name~~(s)~~ ~~(is)~~  
subscribed to the within instrument and  
acknowledged to me that ~~he~~~~she~~~~they~~ executed  
the same in ~~his~~~~her~~~~their~~ authorized  
capacity~~(ies)~~, and that by ~~his~~~~her~~~~their~~  
signature~~(s)~~ on the instrument the person~~(s)~~, or  
the entity upon behalf of which the person~~(s)~~  
acted, executed the instrument.



WITNESS my hand and official seal.

*Julie C. Hiroto*  
Signature of Notary Public

Place Notary Seal Above

**OPTIONAL**

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

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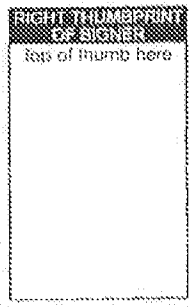
Title or Type of Document: Assignment

Document Date: 6 April 1999 Number of Pages: two

Signer(s) Other Than Named Above: none

**Capacity(ies) Claimed by Signer**

- Signer's Name: \_\_\_\_\_
- Individual
- Corporate Officer — Title(s): \_\_\_\_\_
- Partner —  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_



Signer is Representing: \_\_\_\_\_