FORM PTO-1619A Expires 06/30/99 OMB 0651-0027

09-13-1999



101143686

RECORDATION FORM COVER SHEET PATENTS ONLY

U.S. Department of Commerce	
Patent and Trademark Office PATENT	

MIOT61099

	PATENTS ONLY			
	s: Please record the attached original document(s) or copy(ies).			
Submission Type	Conveyance Type			
New	Assignment Security Agreement			
Resubmission (Non-Recordation) Document ID#	License Change of Name			
Correction of PTO Error Reel # Frame #	Merger			
Corrective Document Reel # Frame #	(For Use ONLY by U.S. Government Agencies) ✓ Departmental File Secret File			
Conveying Party(ies)	Mark if additional names of conveying parties attached Execution Date			
Name (line 1) MASSACHUSETTS INSTITU	UTE OF TECHNOLOGY 6/10/99			
Name (line 2)	Execution Date			
Second Party Name (line 1)	Month Day Year			
Name (line 2)				
Receiving Party	Mark if additional names of receiving parties attached			
Name (line 1) National Institutes o	is an assignment and the			
Name (line 2) Extramural Inventions Office, The Extramural Inventions Office, The States, an appointment				
Address (line 1) 6705 Rockledge Drive, Suite 1040 of a domestic representative is attached. (Designation must be a				
Address (line 2) MSC 7980	separate document from Assignment.)			
Address (line 3) Bethesda City	Maryland / USA 20892-7980 State/Country Zip Code			
Domestic Representative Name and Address Enter for the first Receiving Party only.				
Name				
Address (line 1)				
Address (line 2)				
Address (line 3)				
Address (line 4)				
FOR OFFICE USE ONLY				

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

· · · · · · · · · · · · · · · · · · ·	MIOT61099	
FORM PTO-1619B Expires 08/30/99 OMB 0851-0027	Page 2	U.S. Department of Commerce Patent and Trademark Office PATENT
Correspondent Name and Addres	SS Area Code and Telephone Num	ber 301-435-1986
Name National Institu	tes of Health, The	
Address (line 1) Extramural Inven	tions Office, The	
Address (line 2) 6705 Rockledge D	rive, Suite 1040	
Address (line 3) MSC 7980		
Address (line 4) Bethesda, Maryl	and / USA 20892-7980	
Pages Enter the total number of including any attachme	of pages of the attached conveyance dents.	ocument # 1
Application Number(s) or Patent	Number(s)	ark if additional numbers attached
Enter either the Patent Application Number or	the Patent Number (DO NOT ENTER BOTH nul	mbers for the same property).
Patent Application Number(s	s) P	atent Number(s)
09055475		
If this document is being filed together with a <u>new</u> signed by the first named executing inventor.	Patent Application, enter the date the patent ap	plication was Month Day Year
Patent Cooperation Treaty (PCT)		
Enter PCT application numbe	PCT PCT PCT	PCT
only if a U.S. Application Nur	mber PCT PCT	PCT
has not been assigned. Number of Properties Enter th	e total number of properties involved.	# 1
		"
Fee Amount Fee Amo	unt for Properties Listed (37 CFR 3.4	1): \$
Method of Payment: E	Enclosed Deposit Account]
	if additional fees can be charged to the account.) Deposit Account Number:	#
	Authorization to charge additional fee	s: Yes No 🗙

Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Belen Awetahegne	104	8/23/99
Name of Person Signing	` Signature	Date

LICENSE TO THE UNITED STATES GOVERNMENT

This instrument confers to the United States Government, as represented by the Department of Health and Human Services, a nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced on its behalf throughout the world the following subject invention, patent application and any and all divisions or continuations, and any resulting patent or reissues which may be granted thereon:

Invention Title:

"Optimization of Electrostatics in Binding"

Inventor(s):

Bruce Tidor et al.

Serial No.:

09/055,475 April 3, 1998

Filing Date: Title:

"Computer System and Process for Identifying a Charge

Distribution Which Minimizes Electrostatic Contribution to

Binding at Binding Between a Ligand and a Molecule in a Solvent

and Uses Thereof"

Country, if other than United States:

This subject invention was conceived or first actually reduced to practice in performance of a government-funded project, National Institutes of Health No(s). NIH-5R29-GM47678 and NIH-5P01-GM56552.

Principal rights to this subject invention have been left with the Licensor: MASSACHUSETTS INSTITUTE OF TECHNOLOGY, subject to the provisions of 37 CFR 401 and 45 CFR 8.

Signed this <u>lo</u> day of June, 1999.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

By

Jarmila Z. Hrbek

Patent Administrator and Office Manager

Technology Licensing Office

77 Massachusetts Avenue, Room NE25-230, Cambridge, MA 02139

PATENT REEL: 010222 FRAME: 0153