		10-16	-20	01		Docket No. [00-713-L]
FORM PTO-	-1595				HEET	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
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		atents and Trademarks: Please re-	$\frac{\text{cord th}}{2}$		original documents of address of receivir	
. Name	of conveying party(ies):	10-2-21	2.	ivame and	u audress of receivit.	ig party(ies)
1. Name of conveying party(ies): Northwestern University				Name:	Chad A. Mirkin	
					····	
Additional name(s) of conveying party(ies) attached? 🗖 Yes 🗵 No				Address: 111 16 th Street		
			·	Wilmette, Illinois 60091		
. Nature	e of conveyance:			Name:	Robert Letsinger	
🗵 As	ssignment	🗖 Merger				
		□ Change of Name	Address: 316 Third Street,			
	□ Security Agreement □ Change of N		Wilmette, Illinois 60091			
🗆 Ot	her					
Execution 1	Date: November 18, 1998					
Accution			Ad	ditional na	me(s) & address(es)	attached? 🗵 Yes 🗖 No
. Applic	cation number(s) or patent	number(s):				
••				ting data at	f the employetion is	
If this	document is being filed to	gether with a new application, the	e execu	tion date of	i the application is:	
A. Patent	t Application No.(s)	Filing Date	B.	Patent No	o.(s)	
		10/20/00				
09/69.	3,005					
		Additional numbers	attach	ed? 🗆 Yes	S 🗵 No	
5. Name	and address of party to wh nent should be mailed:	om correspondence concerning	6.	Total nur	mber of applications	and patents involved: 1
docun	nent should be maned.					
Name	Emily Miao					
			7.	Total Fee	e (37 CFR 3.41)	\$40.00
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9. State	ement and signature.	d belief, the foregoing informatic	on is tri	ie and corr	ect and any attache	d copy is a true copy of the original L HJ. EL 625518340 US
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	Emily Miao	$\rightarrow \lambda$	hn)		Date: October 2, 2001
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Names and addresses of Receiving parties (Cont.)

Robert C. Mucic 1600 Bel Aire Drive Glen Dale, California 91201

James J. Storhoff 2121 Ridge Avenue. Apt. 2J Evanston, Illinois 60201

Robert Elghanian 4935 West Louis Avenue, Apt. 2 Skokie, Illinois 60077 WHEREAS, Northwestern University, an Illinois corporation having a place of business at 1801 Maple Ave., Evanston, Illinois 60201-3135 is the owner of PCT Patent Application Serial No. PCT/US97/12783, entitled "NANOPARTICLES HAVING OLIGONUCLEOTIDES ATTACHED THERETO AND USES THEREFOR," and the invention described therein.

NOW THEREFORE, be it known that for certain good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, Northwestern University does sell, assign and transfer to Chad A. Mirkin of 9744 Crawford Avenue, Skokie, Illinois 60076, Robert L. Letsinger of 316 Third Street, Wilmette, Illinois 60091, Robert C. Mucic of 2121 Ridge Avenue, Apt. 2J, Evanston, Illinois 60201, James J. Stonhoff of 2133-1/2 Ridge Avenue, Apt. 2D, Evanston, Illinois 60201 and Robert Elghanian of 8503 W. Catherine Avenue, Apt. 602, Chicago, Illinois 60656, their successors, legal representatives and assigns, the aforesaid PCT application, applications for the tarritory of the United States of America and all continuation, divisional, continuation-in-part and reissue applications, all patent applications in foreign countries, and all applications for extension filed or to be filed for the invention, and all Letters Patent, Invention Registrations, Utility Models, Extensions or Reissues and other patent rights, obtained for the invention in the United States or any other country, Northwestern University also assigns all right, title or interest in and to the said invention to Chad A. Mirkin, Robert L. Letsinger, Robert C. Mucic, James J. Storhoff and Robert Elghanian; Northwestern University warrants that no assignment has been made of the invention, applications or patents therefor to a party other than Chad A. Mirkin, Robert L. Letsinger, Robert C. Mucic, James J. Storhoff and Robert Elghanian, and that Northwestern University is under no obligation to make any assignment of the inventions, applications, or patents therefor to any other party; and Northwestern University further agrees to cooperate with Chad A. Mirkin, Robert L. Letsinger, Robert C. Mucic, James J. Storhoff and Robert Elghanian hersunder in the obtaining and sustaining of any and all such Letters Patent and in confirming Chad A. Mirkin's, Robert L. Letsinger's, Robert C. Mucic's, James J. Storhoff's and Robert Elebanian's, exclusive ownership of the invention and patent rights, but at the expense of Chad A. Mirkin, Robert L. Letsinger, Robert C. Mucic, James J. Storhoff and Robert Elphanian.

The Commissioner of Patents is hereby authorized and requested to issue the Letters Patent solely in accordance with the terms of this Assignment; to Chad A. Mirkin, Robert L. Letsinger, Robert C. Mucic, James J. Storhoff and Robert Elghanian, their successors, legal representatives and assigns, as the assignces of the entire right, title and interest therein.

IN WITNESS WHEREOF, I have executed this Assignment as of the day indicated hereunder.

Date: November 18, 1998 By: J

Indrani Mukhary: V Director, Technology Transfer Program

PATENT REEL: 012239 FRAME: 0625 E OF ILLINOIS)) ss. UNTY OF)

Before me, a Notary Public in and for said County and State, personally appeared Indrani Mukharji, who acknowledged herself to be the Director of the Technology Transfer Program of Northwestern University, and that she as such Director being authorized to do so, executed the foregoing instrument for the purposes and considerations therein expressed, by signing the name of the corporation by herself as Director.

day of November Given under my hand and seal of office this , 1998.

Notary Public 5/6/2001 My commission expires:_____

WANNER CHARMEN "OFFICIAL SEAL Barbara Spiege Nic. State of Wincis

RECORDED: 10/03/2001