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

6/28/99

07-01-1999



CWRU41399

PATENT

JUN 28

	PAIENTS UNLY			
	ks: 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	atory License		
Corrective Document	(For Use ONLY by U.S. Government Agenci	ies)		
Reel # Frame #	Departmental File Se	cret File		
Conveying Party(ies)	Mark if additional names of conveying parties atta	ched Execution Date Month Day Year		
Name (line 1) CASE WESTERN RESERVE	UNIVERSITY	4/13/99		
Name (line 2)		Execution Date		
Second Party		Month Day Year		
Name (line 1)				
Name (line 2)				
Receiving Party	Mark if additional names of receivi	ng parties attached		
Name (line 1) National Institutes (	of Health, The	If document to be recorded is an assignment and the		
Name (line 2) Extramural Inventions	s Office, The	receiving party is not domiciled in the United States, an appointment		
Address (line 1) 6701 Rockledge Drive	, Room 3188	of a domestic representative is attached. (Designation must be a		
Address (line 2) MSC 7750		separate document from Assignment.)		
Address (line 3) Bethesda City	Maryland / USA 20892-77!	50		
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)				
F	OR 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.

CW	ים ז	TΤ	1	1	3	a	Q	
_ r	TL	U	ュ	_	_	_	~	

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

## Page 2

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

ONIB 0031-0027					
Correspond	dent Name and Address  Area Code and Telephone Number 301-	435-1986			
Name	National Institutes of Health, The				
Address (line 1)	Extramural Inventions Office, The				
Address (line 2)	6701 Rockledge Drive, Room 3188				
Address (line 3)	MSC 7750				
Address (line 4)	Bethesda, Maryland / USA 20892-7750				
Pages	Enter the total number of pages of the attached conveyance document including any attachments.	# 2			
• •	` '	nal numbers attached			
Enter either t	the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the				
Pa	atent Application Number(s) Patent Nun	nber(s)			
	5877302 58441	.07			
	t is being filed together with a <u>new</u> Patent Application, enter the date the patent application was irst named executing inventor.	Month Day Year			
Patent Coo	peration Treaty (PCT)	<u> </u>			
Ent	ter PCT application number	PCT			
	ly if a U.S. Application Number PCT PCT	PCT			
	s not been assigned.				
Number of	Properties  Enter the total number of properties involved. #				
Fee Amoun	Fee Amount for Properties Listed (37 CFR 3.41): \$				
	d of Payment: Enclosed Deposit Account				
Deposit Account  (Enter for payment by deposit account or if additional fees can be charged to the account.)  Deposit Account Number: # 2					
	Authorization to charge additional fees: Yes	No X			
Statement a	and Signature				
To the	e best of my knowledge and belief, the foregoing information is true and c	orrect and any			
attached copy is a true copy of the original document. Charges to deposit account are authorized, as					
	ated herein.	and and additioning do			
	len Awetahegne	6/22/99			
	ne of Person Signing Signature	Date			
		<del></del>			

PATENT REEL: 010052 FRAME: 0570

## License to the United States Government

Invention Title: Compacted Nucleic Acids and Their Delivery to Cells

Inventor(s): Thomas W. Ferkol, Richard W. Hanson, Joseph C. Perales

Patent or Application Serial No.: 5,844,107

U.S. Filing/Issue Date: 9/27/96 and 12/1/98

Grant/Contract Identification Number(s): NIH DK21859, DK25541, HL53672

Foreign Applications filed/intended in (countries):

The invention identified above is a Subject Invention under 35 U.S.C. 200, et seq., and the Standard Patent Rights clause at 37 CFR 401.14 or FAR 52.227-11, which are included among the terms of the above-identified grant/contract award from the Public Health Services/National Institutes of Health. This document is confirmatory of:

- 1. The nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the invention described in any patent application and in any and all divisions, continuations, and continuations in part, and in any and all patents and re-issues granted thereon throughout the world; and
- 2. All other rights acquired by the Government by reason of the above identified grant/contract award and the laws and regulations which are applicable to the award.

The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application.

Signed this	/3	day of _	APRIL	, 199 <u><b>f</b></u> .
By:	to be	or Official and		
Grante	ee/Contracto	or Official and	Title)	

For: Case Western Reserve University

At: 10900 Euclid Avenue, Cleveland, Ohio 44106

PATENT REEL: 010052 FRAME: 0571

## License to the United States Government

Invention Title: Compacted Nucleic Acids and Their Delivery to Cells

Inventor(s): Thomas W. Ferkol, Richard W. Hanson, Joseph C. Perales

Patent or Application Serial No.: 5,877,302

U.S. Filing/Issue Date: 3/2/99

Grant/Contract Identification Number(s): NIH DK21859, DK25541, HL53672

Foreign Applications filed/intended in (countries): Australia, Canada, Japan, EPO

The invention identified above is a Subject Invention under 35 U.S.C. 200, et seq., and the Standard Patent Rights clause at 37 CFR 401.14 or FAR 52.227-11, which are included among the terms of the above-identified grant/contract award from the Public Health Services/National Institutes of Health. This document is confirmatory of:

- 1. The nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the invention described in any patent application and in any and all divisions, continuations, and continuations in part, and in any and all patents and re-issues granted thereon throughout the world; and
- 2. All other rights acquired by the Government by reason of the above identified grant/contract award and the laws and regulations which are applicable to the award.

The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application.

Signed this	13	day of _	APRIL	, 199 <u></u> <b>f</b>
Ву:	Saton Co	Senon		
(CG)	aritee/Contractor	Official and	Title)	

For: Case Western Reserve University

At: 10900 Euclid Avenue, Cleveland, Ohio 44106

PATENT
RECORDED: 06/28/1999 REEL: 010052 FRAME: 0572