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Joyce Lustbader   Joyce Lustbader	To the Honorable Commissioner of Paten	its and Trademarks. Plea	ase record the att		-
Name	1. Name of conveying party(les):	51. 102- 1.3	2. Name and	102155041	
Additional numbers stached?    Ves   No			in th	e City of New York	ity
Name and address of party to whom correspondence concerning document should be maided.  Name: John P. Whitte, Esq.  Name: CopyState/Zip: New York, New York 10027    Street Address: 1185 Avenue of the Americas   Address: Cooper & Dunham LLP   Enclosed   Authorized to be charged to deposit account number: 17.0 he best of my knowledge and belief, the foregony fromation is true and correct and any attached copy is a true copy or agriculture.    Statement and signature.   Alan J. Mortison, Esq.   Name of Person Signing   Signature   Signature   Signature   Total Number of pages including cover sheet attachments and document.   Alan J. Mortison, Esq.   Name of Person Signing   Signature   Signature	Additional name(s) of conveying party(ies	i) attached?	į		
Assignment	☐ Yes ☒ No	7-10-02	Street Address:	Broadway and West 116th Str	ee
Security Agreement	3. Nature of Conveyance:				
Additional name(s) & address(es) attached?    Additional name(s) & address(es) attached?    Additional name(s) & address(es) attached?    A Patent Application No.(s) 10/112.321    B Patent No.(s)    A Patent Application No.(s) 10/112.321    B Patent No.(s)    A Patent Application No.(s) 10/112.321    B Patent No.(s)    B Patent No.(s)    Additional numbers strached?    Yes    No  5 Name and address of party to wnom correspondence concerning document should be mailed:    Name: John P. White, Esg.    Internal Address: Cooper & Dunham LLP    Street Address: 1185 Avenue of the Americas    Chy/State/Zip New York, New York 10036    8 Deposit account number:    03-3125    OO NOT USE THIS SPACE  3. 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 or original document.    Alan J. Morrison, Esg.    Name of Person Signing    Signature    Total Number of pages including cover sheet, attachments and this dare with the U.S. Postal Service with sufficient postage as first class prist in an enveloce addressed to Correspondence of Patents and Trademants. Washington, Oc. 20231    Alan J. Morrison    Mail documents to be recorded with required cover sheet information to Correspondence of Patents and Trademants Muschington.    ON Mail documents to be recorded with required cover sheet information to Correspondence of Patents and Trademants Box Assignments.	Assignment Assignment	Merger Merger	City/State/Zip: _	New York, New York 10027	
A Application number(s) or patent number(s). If this document is being filed together with a new application, the execution date(s) of application is (are):  A Patent Application No.(s) 10/112.321 B. Patent No.(s)	r	Change of Name			
A Patent Application No.(s) 10/112,321  filed March 27, 2002  Additional numbers stached?	Execution Date(s): May 17, 2002	2	Additional name	(s) & address(es) attached?	a
Additional numbers attached?    Yes   No   Name and address of party to whom correspondence concerning document should be mailed.   Name: John P. White, Esq.	4. Application number(s) or patent number	per(s): If this document is	s being filed togethe	er with a new application, the execution date(	<b>s</b> ) c
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Additional numbers stached?	A. Patent Application No.(s) 1	)/112.321	B. Patent No.(s	)	
5. Name and address of party to whom correspondence concerning document should be mailed:  Name: John P. White, Esq.  Internal Address: Cooper & Dunham LLP  Street Address: 1185 Avenue of the Americas  City/State/Zip: New York, New York 10036  8. Deposit account number:  03-3125  DO NOT USE THIS SPACE  9. 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 or original document.  Alan J. Morrison, Esq.  Name of Person Signing  Signature  Total number of applications and patents involved: 1  Enclosed  Alan J. Morrison, Signing  Signature  Total number of applications and patents involved: 1  Total fee (37 CFR §3.41): \$ 40.00  Alan J. Morrison account number: 03-3125  DO NOT USE THIS SPACE  9. 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 or original document.  Alan J. Morrison, Esq.  Total number of pages including cover sheet, attachments and document: 3  Total Number of pages including cover sheet, attachments and document: 3  Alan J. Morrison  Alan	filed March 27, 20	)02			
5. Name and address of party to whom correspondence concerning document should be mailed:  Name: John P. White, Esq.  Internal Address: Cooper & Dunham LLP  Street Address: 1185 Avenue of the Americas  City/State/Zip: New York, New York 10036  Do Not use this space  To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy or original document.  Alan J. Morrison, Esq.  Name of Person Signing  Signature  Total number of applications and patents involved: 1  Enclosed  Authorized to be charged to deposit account number: 03-3125  DO NOT USE THIS SPACE  9. 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 or original document.  Alan J. Morrison, Esq.  Total number of applications and patents involved: 1  Total fee (37 CFR §3.41): \$ 40.00  Authorized to be charged to deposit account number: 03-3125  DO NOT USE THIS SPACE  9. 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 or original document.  Alan J. Morrison, Esq.  Total Number of pages including cover sheet, attachments and document: 3  Total Number of pages including cover sheet, attachments and document: 3  Alan J. Morrison  Alan					
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PATENT REEL: 13073 FRAME: 0634

## Assignment

In consideration of One Dollar  $\{\$1.00\}$ , and other good and valuable considerations, the receipt of which is hereby acknowledged, I, the undersigned,

Joyce Lustbader residing at 111 Oxford Drive, Tenafly, New Jersey, 07670

Hereby sell, assign and transfer to The Trustees of Columbia University in the City of New York

a corporation of the State of

New York having a place of business at West 116th Street & Broadway, New York, New York 10027, U.S.A. in the County of New York and State of New York

its successors, assigns and legal representatives, the entire right, title and interest for all countries, in and to any and all inventions which are disclosed and claimed, and any and all inventions which are disclosed but not claimed, in the application for United States Patent, which has been executed by the undersigned on May 17, 2002 and is entitled

LONG-ACTING FOLLICLE STIMULATING HORMONE ANALOGUES AND USES THEREOF (U.S. Serial No. 10/112,321 , filed March 27, 2002, a continuation-in-part of U.S. Serial No. 10/062,910, filed January 31, 2002)

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for U.S. Letters Patent or other related property rights in any and all foreign countries which have been or shall be filed on any of said inventions disclosed in said application; and in and to all original and reissued patents or related foreign documents which have been or shall be issued on said inventions;

Authorize and request the Commissioner of Patents of the United States to issue to said Assignee, the corporation above named, its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said inventions or any of them disclosed in said application;

PATENT REEL: 13073 FRAME: 0635

## ASSIGNMENT BY

Joyce Lustbader

TO

The Trustees of Columbia University in the City of New York

LONG-ACTING FOLLICLE STIMULATING HORMONE ANALOGUES AND USES THEREOF

Attorney for John P. White, Esq.

Cooper & Dunham

1185 Avenue of the Americas

New York, N.Y. 10036

212-278-0400

PATENT REEL: 13073 FRAME: 0636

**RECORDED: 07/03/2002**