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1. Name of conveying party(les): Patricia C. Conrad Additional name(s) of conveying parties attached? ☑ Yes ☐ No. 3. Nature of conveying parties attached? ☑ Yes ☐ No. 3. Nature of conveying parties attached? ☑ Yes ☐ No. 3. Nature of conveying parties attached? ☑ Yes ☐ No. 3. Nature of conveying parties attached? ☑ Yes ☐ No. 4. Assignment ☐ Merger ☐ Other: ☐ Change of Name ☐ Other: ☐ Additional names and addresses: 1111 Franklin Street. 12th Floor ☐ City: Qakland ☐ State: QA ☐ ZIP: 94607-5200 ☐ City: Qakland ☐ State: QA ☐ ZIP: 94607-5200 ☐ Additional names and addresses attached? ☐ Yes ☒ No ☐ Additional names and addresses attached? ☐ Yes ☒ No ☐ Additional names and addresses attached? ☐ Yes ☒ No ☐ Application number(s) or patent number(s). ☐ Patent Application No(s): 09/957,995 ☐ ☐ Patent No(s): ☐ A Patent Application No(s): 09/957,995 ☐ ☐ Patent No(s): ☐ Additional numbers attached? ☐ Yes ☒ No ☐ Total number of applications and patents involved 1 ☐ Total fee (37 CFR 3.41): ☐ □ Enclosed ☐ ☐ Total number: 20-1430 ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐						
Patricia C. Conrad Additional nume(s) of conveying parties attached? ☑ Yes ☐ No. 3. Nature of conveyance: ☑ Assignment ☐ Merger ☐ Change of Name ☐ Other: ☐ Assignment ☐ Change of Name ☐ Other: ☐ Additional names and addresses attached? ☐ Yes ☐ No. Execution Date: 1) November 8, 2001; 2) November 8, 2001; 3) November 18, 2001; and 4)November 19, 2001 4. Application number(s) or patent number(s). If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No(s): 09/957.995 B. Patent No(s): Additional number attached? ☐ Yes ☑ No. 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Kiwin L. Bastian TOWNSEND AND TOWNSEND AND CREW LLP Two Embaracidero Center, 8th Floor San Francisco, California 94111-3834 (415) 576-0200 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true of copy of the original document. Kevin L. Bastian Name of Person Signing Ally, Reg. No. 34,774 Total number of pages including cover sheet, attachments and document. 7. Total fee (37 CFR 3.41): ☐ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	To the Honorable Commissioner of Patents an	Trademarks. Please record the attached original documents or copy thereof				
Additional name(s) of conveying parties attached?	{	2. Name and address of receiving party(ies)				
Street Address: 1111 Franklin Street, 12 th Floor Assignment	Patricia C. Conrad	Name: REGENTS OF THE UNIVERSITY OF CALIFORNIA				
Street Address: 1111 Franklin Street, 12" Floor City: Qakland State: CA ZIP: 94607-5200 City: Qakland State: CA ZIP: 94607-5200 Additional names and addresses attached?	Additional name(s) of conveying parties attached? X Yes	No. Internal Address:				
Assignment	Nature of conveyance:	Street Address: 1111 Franklin Street, 12th Floor				
Security Agreement						
Additional names and addresses attached?	☐ Security Agreement ☐ Change					
A. Patent Application No(s): 09/957,995 Additional numbers attached? Yes No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Kevin L. Bastian TOWNSEND AND TOWNSEND AND CREW LLP Two Embarcadero Center, 8° Floor San Francisco, California 94111-3834 (415) 576-0200 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true of copy of the original document. Kevin L. Bastian Name of Person Signing Atty. Reg. No. 34,774 Total number of pages including cover sheet, attachments and document 7		Additional access and addition to the Lot 10 Thy				
If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No(s): 09/957,995 B. Patent No(s): Additional numbers attached? Yes No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Kevin L. Bastian TOWNSEND AND TOWNSEND AND CREW LLP Two Embarcadero Center, 8 th Floor San Francisco, California 94111-3834 (415) 576-0200 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true of copy of the original document. Kevin L. Bastian Name of Person Signing Atty. Reg. No. 34,774 Total number of pages including cover sheet, attachments and document. 7	November 8, 2001; and 4)November 19, 2001	3. 2001; 3) (Fig. 2.0) (Fig. 2.0)				
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Additional numbers attached? Yes No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Kevin L. Bastian TOWNSEND AND TOWNSEND AND CREW LLP Two Embarcadero Center, 8" Floor San Francisco, California 94111-3834 (415) 576-0200 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true of copy of the original document. Kevin L. Bastian Name of Person Signing Atty. Reg. No. 34,774 Total number of applications and patents involved 1 6. Total number of applications and patents involved 1 7. Total fee (37 CFR 3.41): \$40.00 CHICAL PROVINCE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true of copy of the original document. Signature January 29, 2002 Date Date	If this document is being filed together with a new a	opplication, the execution date of the application is:				
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Kevin L. Bastian	A. Patent Application No(s): 09/957,995	B. Patent No(s):				
Name: Kevin L. Bastian TOWNSEND AND TOWNSEND AND CREW LLP Two Embarcadero Center, 8 th Floor San Francisco, California 94111-3834 (415) 576-0200 Bo Not Use This Space 9. Statement and signature. To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true of copy of the original document. Kevin L. Bastian Name of Person Signing Atty. Reg. No. 34,774 Total number of pages including cover sheet, attachments and document 7. Total fee (37 CFR 3.41): ——\$40,00 (Attach duplicate (37 CFR 3.41): ——\$40,00 (Attach duplicate copy of this page if paying by deposit account) Bo Not Use This Space 9. Statement and signature. To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true of copy of the original document. Total number of pages including cover sheet, attachments and document Total number of pages including cover sheet, attachments and document 7	Additional numbers attached? Yes No					
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TOWNSEND AND TOWNSEND AND CREW LLP Two Embarcadero Center, 8 th Floor San Francisco, California 94111-3834 (415) 576-0200 8. Deposit account number: 20-1430 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true of copy of the original document. Kevin L. Bastian Name of Person Signing Atty. Reg. No. 34,774 Total number of pages including cover sheet, attachments and document 7	concerning document should be mailed:					
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Commissioner of Patents and Trademarks, Box Assignments 7995 Washington, D.C. 20231 03/13/2002 TDIA71 09957995

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Form PTO-1595 Recordation Form Cover Sheet Patents Only Page 2

 Additional name(s) of conveying party(ies): (Continued from Page 1)

Bradd C. Barr Mark L. Anderson Karen W. Sverlow

- Additional name(s) and address(es) of receiving party(ies): (Continued from Page 1)
- Additional application number(s) or patent number(s): (Continued from Page 1)
 - A. Patent Application No.(s)

B. Patent No.(s)

SF 1312833 v1

ASSIGNMENT

U.C. Case No. 96-328-4

	e consideration, the receipt of	f which is hereby acknowledged, ASSIGNOR(S),	
1. Patricia A. Conrad		2. Bradd C. Barr	
3. <u>Mark L. Andersen</u>		4. Karen W. Sverlow	
Corporation, having 94607-5200, and thinterest for the Unite	its statewide administrative e successors, assigns and le	E, The Regents of the University of California, a California offices located 1111 Franklin St., 12th Floor, Oakland, CA gal representatives of the ASSIGNEE all of its right, title and ossessions and in all foreign countries in and to, any and all n entitled:	
Recombinant Neospo	ora Antigens and Their Uses		
and which is found in	า		
(a)inv	U.S. provisional application entors	n filed herewith and listing the above-named persons as	
(b)	U.S. patent application filed	herewith and listing the above-named persons as inventors	
(c) X	U.S. Patent Application No.	09/957,995, filed on September 21, 2001	
(d)	U.S. Patent No.:	, issued	
continuation-in-part, reexamination or exterior of Industriance (Industriance) and continuate (Industriance) and accessible to A relating thereto and papers, instruments invention and said Lout the purposes thas signment to insert known.	extension, conversion to dension of said Letters Pater al Property; y covenants that no assignment which would conflict with the covenants that ASSIGNEE was relating to said invention and SSIGNOR and will testify as will promptly execute and correct a said equivalence. An attorney of receint of this assignment the filing the said exercited to apply the said equivalence.	will, upon its request, be provided promptly with all pertinent disaid Letters Patent and legal equivalents as may be known at to the same in any interference, litigation, or proceeding deliver to ASSIGNEE or its legal representative any and all of for, obtain, maintain, issue or enforce said application, said allents thereof which may be necessary or desirable to carry or disauthorized and requested by the execution of this and date and serial number of said application when officially	
		er of Patents and Trademarks to issue said Letters Patent of thereof to the ASSIGNEE, The Regents of the University of	
Cambrilla.			
		Signature of Inventor(s)	
executed this	, 20	Signature of Inventor(s)	
executed this	, 20 , 20	Signature of Inventor(s)	
executed this		Signature of Inventor(s) Karen W Sherlow	

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ASSIGNMENT

U.C. Case No. 96-328-4

For good and valuable consideration, the receipt of w	which is hereby acknowledged, ASSIGNOR(S),				
Patricia A. Conrad	2. Bradd C. Barr				
3. Mark L. Andersen	4. Karen W. Sverlow				
hereby sells, assigns and transfers to ASSIGNEE, The Regents of the University of California, a California Corporation, having its statewide administrative offices located 1111 Franklin St., 12 th Floor, Oakland, CA 94607-5200, and the successors, assigns and legal representatives of the ASSIGNEE all of its right, title and interest for the United States and its territorial possessions and in all foreign countries in and to, any and all improvements which are disclosed in the invention entitled:					
Recombinant Neospora Antigens and Their Uses					
and which is found in					
(a) U.S. provisional application finventors	iled herewith and listing the above-named persons as				
(b) U.S. patent application filed he	rewith and listing the above-named persons as inventors				
(c) X U.S. Patent Application No. <u>09</u>	<u>/957,995, filed on September 21, 2001</u>				
(d) U.S. Patent No.:	, issued				
and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, continuation-in-part, extension, conversion to 35 USC 111(a) or substitute thereof, and any reissue, reexamination or extension of said Letters Patent and all rights under all International Conventions for the Protection of Industrial Property; ASSIGNOR(S) hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;					
ASSIGNOR(S) further covenants that ASSIGNEE will, facts and documents relating to said invention and sa and accessible to ASSIGNOR and will testify as to relating thereto and will promptly execute and deliverable papers, instruments or affidavits required to apply for invention and said Letters Patent and said equivalent out the purposes thereof. An attorney of record	upon its request, be provided promptly with all pertinent aid Letters Patent and legal equivalents as may be known to the same in any interference, litigation, or proceeding wer to ASSIGNEE or its legal representative any and all r, obtain, maintain, issue or enforce said application, said to the test of which may be necessary or desirable to carry is authorized and requested by the execution of this late and serial number of said application when officially				
AND the <u>ASSIGNOR(S)</u> requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States and any reissue or extension thereof to the ASSIGNEE, The Regents of the University of California.					
executed this	ignature of Inventor(s)				
8+h day of <u>Nou</u> , 2001	Jan A (con				
day of, 20					
8th day of Nov., 20 01	Breek c Den				
8 TH day of Nov., 2001 _	Mark ala				

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RECORDED: 02/20/2002