To the Honorable Commissioner of Pa	MERCE					
To the Honorable Commissioner of Pa						
1. Name of conveying party(ies): 1. Inventor's Names: 1. Inventor's Names:  Joseph C. Farmer Larry E. Fischer Thomas E. Felter  Attorney Docket No.: IL-11042 3. Nature of conveyance:  Assignment  Assignment  Application number(s) or patent number(s): IL-11042  If this document is being filed together with a new application, the execution No.(s)  A. Patent Application No.(s)  B. Patent No.(s)  B. Patent No.(s)  Address:  Eddie E. Scott  Address:  Lawrence Livermore Nat. Laboratory Intellectual Property Law, L-703  7000 East Avenue Livermore, CA 94550  DO NOT USE THIS SPACE  Atthree Intellectual General Property Law and belief, the foregoing information is true and correct and any attache is a true copy of the original document.  Kathy Raymond  Atthree Intellectual General Property Law and belief, the foregoing information is true and correct and any attache is a true copy of the original document.  Kathy Raymond  Authorized  12-12-065						
1. Inventor's Names:  1. Inventor's Names:  1. Inventor's Names:  Joseph C. Farmer Larry E. Fischer Thomas E. Felter  Attorney Docket No.: IL-11042  3. Nature of conveyance:  Assignment  Assignment  Assignment  Application number(s) or patent number(s): IL-11042  If this document is being filed together with a new application, the execution No.(s)  A Patent Application No.(s)  B. Patent No.(s)  A Patent Application No.  Name and address of party to whom correspondence concerning document should be mailed:  Active Eddie E. Scott  Lawrence Livermore Nat. Laboratory Intellectual Property Law, L-703  7000 East Avenue Livermore, CA 94550  DO NOT USE THIS SPACE  2. Name and Address of receiving party(ies):  The Regents of the University of California 1111 Franklin Street  Oakland, CA 94612-3550  10/31/2005  B. Patent No.(s)  B. Patent No.(s)  B. Patent No.(s)  Authorized charge deposit account number:  12-0695  DO NOT USE THIS SPACE	thereof.					
The Regents of the University of California  The Regents of the University of California  1111 Franklin Street Oakland, CA 94612-3550  Attorney Docket No.: IL-11042  Nature of conveyance:  Assignment  Assignment  Execution Date: 10/31/2005  Application number(s) or patent number(s): IL-11042  If this document is being filed together with a new application, the execution date of the application is:  A. Patent Application No.(s)  Name and address of party to whom correspondence concerning document should be mailed:  A. Patent Application No.(s)  B. Patent No.(s)  Name: Eddie E. Scott Concerning document should be mailed:  It is a concerning to concerning the concerning the concerning the concerning the concerning the conce						
Assignment   Execution Date:   10/31/2005						
Attorney Docket No.: IL-11042  3. Nature of conveyance:  Assignment	٥.					
Attorney Docket No.: IL-11042  3. Nature of conveyance:  Assignment  Execution Date: 10/31/2005  3. Application number(s) or patent number(s): IL-11042  If this document is being filed together with a new application, the execution date of the application is: date  A. Patent Application No.(s)  B. Patent No.(s)  Name and address of party to whom correspondence concerning document should be mailed:  A. Patent Application No.(s)  B. Patent No.(s)  Attended to the application is: date  A. Patent Application No.(s)  B. Patent No.(s)  Authorized charge deposit account number:  Intellectual Property Law, L-703  Total fee  \$ 40.0  Authorized charge deposit account number:  12-0695  DO NOT USE THIS SPACE	32. P.					
Assignment Execution Date: 10/31/2005  Application number(s) or patent number(s): IL-11042  If this document is being filed together with a new application, the execution date of the application is: date  A. Patent Application No.(s)  B. Patent No.(s)  Name and address of party to whom correspondence concerning document should be mailed:  A. Patent Application No. (s)  Name: Eddie E. Scott  T. Total fee  40.0  Authorized charge deposit account number: 12-0695  DO NOT USE THIS SPACE  Statement and Signature  To the best of my knowledge and belief, the foregoing information is true and correct and any attacher is a true copy of the original document.  Kathy Raymond  Execution Date: 10/31/2005	92.8					
Assignment Execution Date: 10/31/2005  Application number(s) or patent number(s): IL-11042  If this document is being filed together with a new application, the execution date of the application is:  A. Patent Application No.(s)  B. Patent No.(s)  Name and address of party to whom correspondence concerning document should be mailed:  Ame: Eddie E. Scott  T. Total fee  Authorized charge deposit account number:  Intellectual Property Law, L-703  Authorized charge deposit account number:  Livermore, CA 94550  DO NOT USE THIS SPACE  O. Statement and Signature  To the best of my knowledge and belief, the foregoing information is true and correct and any attacher is a true copy of the original document.  Kathy Raymond  Application Date: 10/31/2005	202					
Assignment Execution Date: 10/31/2005  Application number(s) or patent number(s): IL-11042  If this document is being filed together with a new application, the execution date of the application is:  A. Patent Application No.(s)  Name and address of party to whom correspondence concerning document should be mailed:  A. Patent Application No.(s)  Name and address of party to whom correspondence concerning document should be mailed:  A. Patent Application No.(s)  B. Patent No.(s)  Name and address of party to whom correspondence concerning document should be mailed:  A. Patent Application No.(s)  B. Patent No.(s)  B. Patent No.(s)  Authorized charge deposit account number: 12-0695  Do Not Use This space  To the best of my knowledge and belief, the foregoing information is true and correct and any attacher is a true copy of the original document.  Kathy Raymond	<del>E-</del>					
Assignment Execution Date: 10/31/2005  Application number(s) or patent number(s): IL-11042  If this document is being filed together with a new application, the execution date of the application is:  A. Patent Application No.(s)  Name and address of party to whom correspondence concerning document should be mailed:  Pame: Eddie E. Scott  Concerning document should be mailed:  Total fee  Lawrence Livermore Nat. Laboratory Intellectual Property Law, L-703  Authorized charge deposit account 7000 East Avenue Livermore, CA 94550  DO NOT USE THIS SPACE  Statement and Signature  To the best of my knowledge and belief, the foregoing information is true and correct and any attacher is a true copy of the original document.  Kathy Raymond  Authorized  Lawrence Livermore Nat. Laboratory Intellectual Property Law, L-703  Authorized charge deposit account number: 12-0695  DO NOT USE THIS SPACE						
Application number(s) or patent number(s): IL-11042  If this document is being filed together with a new application, the execution date of the application is:  A. Patent Application No.(s)  Name and address of party to whom correspondence concerning document should be mailed:  Ame: Eddie E. Scott  Intellectual Property Law, L-703  Intellectual Property Law, L-703  Total Number of applications and patents in the concerning document should be mailed:  Authorized charge deposit account number:  Livermore, CA 94550  DO NOT USE THIS SPACE  Statement and Signature  To the best of my knowledge and belief, the foregoing information is true and correct and any attacher is a true copy of the original document.  Kathy Raymond						
If this document is being filed together with a new application, the execution date of the application is:  A. Patent Application No.(s)  Name and address of party to whom correspondence concerning document should be mailed:    A. Patent Application No.(s)    A. Patent Application No.(s)    B. Patent No.(s)    A. Patent Application No.(s)    B. Patent No.(s)    Authorized charge deposit account number: 12-1695    Do Not Use This space   Comparison of the original document of the applications and patents in the						
A. Patent Application No.(s)  B. Patent No.(s)  Name and address of party to whom correspondence concerning document should be mailed:  Name: Eddie E. Scott  Intellectual Property Law, L-703  Total fee  Authorized charge deposit account 7000 East Avenue  Livermore, CA 94550  DO NOT USE THIS SPACE  Statement and Signature  To the best of my knowledge and belief, the foregoing information is true and correct and any attacher is a true copy of the original document.  Kathy Raymond  Authorized charge deposit account number:  12-1205						
Name and address of party to whom correspondence concerning document should be mailed:    Iame:   Eddie E. Scott   7. Total fee   \$ 40.0     Intellectual Property Law, L-703   ■ Authorized charge deposit account 7000 East Avenue   8. Deposit Account number: Livermore, CA 94550   12-0695      Do Not Use This space   12-0695						
Name and address of party to whom correspondence concerning document should be mailed:    Iame:   Eddie E. Scott   7. Total fee   \$ 40.0     Intellectual Property Law, L-703   ■ Authorized charge deposit accounty   Intellectual Property Law, L-703   ■ Authorized charge deposit accounty   12-0695     Do NOT USE THIS SPACE   12-0695						
concerning document should be mailed:    Iarme: Eddie E. Scott						
concerning document should be mailed:    Iarme: Eddie E. Scott						
concerning document should be mailed:    Jame: Eddie E. Scott						
Lawrence Livermore Nat. Laboratory Intellectual Property Law, L-703 ■ Authorized charge deposit account 7000 East Avenue 8. Deposit Account number: 12-0695  DO NOT USE THIS SPACE  Statement and Signature  To the best of my knowledge and belief, the foregoing information is true and correct and any attacher is a true copy of the original document.	/olved:					
Lawrence Livermore Nat. Laboratory   □   Enclosed	 )0					
7000 East Avenue Livermore, CA 94550  DO NOT USE THIS SPACE  Statement and Signature  To the best of my knowledge and belief, the foregoing information is true and correct and any attacher is a true copy of the original document.  Kathy Raymond  8. Deposit Account number:  12-0695  DO NOT USE THIS SPACE						
7000 East Avenue Livermore, CA 94550  DO NOT USE THIS SPACE  Statement and Signature  To the best of my knowledge and belief, the foregoing information is true and correct and any attacher is a true copy of the original document.  Kathy Raymond    12   2005   12   12   12   12   12   12   12   1	t					
Livermore, CA 94550  DO NOT USE THIS SPACE  Statement and Signature  To the best of my knowledge and belief, the foregoing information is true and correct and any attacher is a true copy of the original document.  Kathy Raymond  Livermore, CA 94550  DO NOT USE THIS SPACE						
DO NOT USE THIS SPACE  Statement and Signature  To the best of my knowledge and belief, the foregoing information is true and correct and any attaches is a true copy of the original document.  Kathy Raymond  Lathy Raymond						
To the best of my knowledge and belief, the foregoing information is true and correct and any attacher is a true copy of the original document.  Kathy Raymond  Kathy Raymond						
To the best of my knowledge and belief, the foregoing information is true and correct and any attacher is a true copy of the original document.  Kathy Raymond  Kathy Raymond						
To the best of my knowledge and belief, the foregoing information is true and correct and any attacher is a true copy of the original document.  Kathy Raymond  Kathy Raymond						
is a true copy of the original document.  Kathy Raymond  Kathy Raymond  12/1/2005						
Kathy Raymond Kathy Rummel 12/1/2005	d copy					
Name of Person Signing Signature Date						
Total number of pages comprising cover sheet	1					
DBYRNE 00000040 120695 11292827						

12/13/20

01 FC:8021

## **ASSIGNMENT**

LLNL Case No.: IL-11042					
For good and valuable consideration the receipt of which is hereby acknowledged ASSIGNOR(s)					
1. <u>Jos</u>	eph C. Farmer	2.	Larry E. Fischer		
3. <u>The</u>	omas E. Felter	4.			
5//		6.			
7. //		8.			
			<i>II</i>		
hereby sells, assigns and transfers to ASSIGNEE, the Regents of the University of California, a California Corporation, having its statewide administrative offices located at 1111 Franklin Street, Oakland, California 94607-5200, and the successors, assigns and legal representative 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:					
INDIRECT DETECTION OF RADIATION SOURCES THROUGH DIRECT DETECTION OF RADIOLYSIS PRODUCTS					
and which is found in					
■ U.S. patent application executed on 10/31/2005 , entitled as above and listing the above named persons as inventors					
	J.S. patent application serial no.		_ , filed on		
	J. 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 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, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation, or proceeding relating thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof. An attorney of record is authorized and requested by the execution of this assignment to insert into this assignment the filing date and serial number of said application when officially known.					
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.					
execute	o/14/05		Signature of Inventor(e)  Joseph Jo. Farmer		

**RECORDED: 12/01/2005** 

PATENT REEL: 017328 FRAME: 0013