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

07-17-2001

101778048

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

Submission Type	Conveyance Ty	attached original document(s) or copy(ies). pe	
√ New	Assignment	ment Security Agreement	
Resubmission (Non-Recordation) Document ID#	License	Change of Name	
Correction of PTO Error Reel # Frame #	Merger	Other	
Corrective Document Reel # Frame #		U.S. Government Ise ONLY by U.S. Government Agencies) epartmental File Secret File	
Conveying Party(ies)	Mark if addition	al names of conveying parties attached Execution D	Date
Name (line 1) ALOY, Albert S.		Month Day 11/13/20	Ye 100
Name (line 2)		Execution I Month Day	Date Ye
Name (line 1) SAPOZHNIKOVA, Natalia	V.	11/13/20	000
Name (line 2)			
Name (line 1) United States Department o	f Energy	If document to be in is an assignment a receiving party is	and the
Name (line 2)		domiciled in the U States, an appoint of a domestic	ment
Name (line 2) ddress (line 1) GC-62, MS 6F-067 (FORST	L)	States, an appoint	ment attached be a
		States, an appoint of a domestic representative is a (Designation must	ment attached be a
ddress (line 1) GC-62, MS 6F-067 (FORST	S.W.	States, an appoint of a domestic representative is a (Designation must separate document Assignment.)	ment attached be a
ddress (line 1) GC-62, MS 6F-067 (FORST ddress (line 2) 1000 Independence Avenue,	S.W. D.C. State/Country	States, an appoint of a domestic representative is a (Designation must separate document Assignment.)	ment attached be a
ddress (line 1) GC-62, MS 6F-067 (FORST ddress (line 2) 1000 Independence Avenue, address (line 3) Washington	S.W. D.C. State/Country	States, an appoint of a domestic representative is a (Designation must separate document Assignment.) 20585-0162 Zip Code	ment attached be a
ddress (line 1) GC-62, MS 6F-067 (FORST ddress (line 2) 1000 Independence Avenue, address (line 3) Washington City Domestic Representative Name	S.W. D.C. State/Country	States, an appoint of a domestic representative is a (Designation must separate document Assignment.) 20585-0162 Zip Code	ment attached be a
ddress (line 1) GC-62, MS 6F-067 (FORST ddress (line 2) 1000 Independence Avenue, address (line 3) Washington City Domestic Representative Name	S.W. D.C. State/Country	States, an appoint of a domestic representative is a (Designation must separate document Assignment.) 20585-0162 Zip Code	ment attached be a
ddress (line 1) GC-62, MS 6F-067 (FORST ddress (line 2) 1000 Independence Avenue, address (line 3) Washington City Domestic Representative Name Name	S.W. D.C. State/Country	States, an appoint of a domestic representative is a (Designation must separate document Assignment.) 20585-0162 Zip Code	ment attached be a

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.

Mail documents to be recorded with required cover sheet(s) information for Commissioner of Patents and Trademarks, Box Assignments, Washington, 10-12-12-13-1

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

Page 2

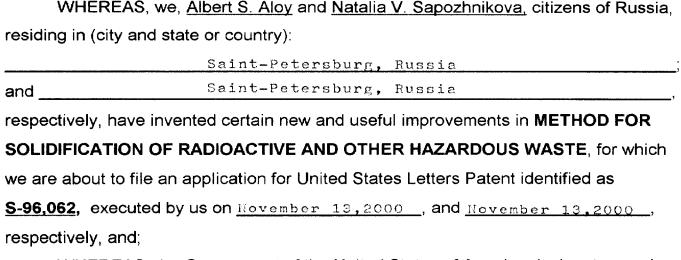
U.S. Department of Commerce Patent and Trademark Office PATENT

Correspondent Name and Address	Area Code and Telephone Number	202-586-2810
Name Betty Winchester		
Address (line 1) United States Department of Energ	gy .	
Address (line 2) GC-62, MS 6F-067 (FORSTL)		
Address (line 3) 1000 Independence Avenue, S.W.		
Address (line 4) Washington, D.C. 20585-0162		
Audress (iiie 4) Washington, D.C. 20363-0102		
Pages Enter the total number of pa including any attachments.	ages of the attached conveyance documer	#
Application Number(s) or Patent Nu	mber(s) Mark if add	litional numbers attached
Enter either the Patent Application Number or the F	Patent Number (DO NOT ENTER BOTH numbers for th	e same property).
Patent Application Number(s)	Patent N	lumber(s)
09/721963		
If this document is being filed together with a new Pate signed by the first named executing inventor.	nt Application, enter the date the patent application w	as Month Day Year
Patent Cooperation Treaty (PCT)		
Enter PCT application number	PCT PCT	PCT
only if a U.S. Application Numbe has not been assigned.	PCT PCT	PCT
Number of Properties Enter the total	Il number of properties involved.	1
Fee Amount Fee Amoun	nt for Properties Listed (37 CFR 3.41): \$	40.00
Method of Payment: Encl Deposit Account	osed Deposit Account	
(Enter for payment by deposit account or if ad	ditional fees can be charged to the account.) Deposit Account Number: #	01-2752
	Authorization to charge additional fees: Y	es 🗸 No
Statement and Signature		
	belief, the foregoing information is true an original document. Charges to deposit a	
Betty A. Winchester	/ Ilmhich	JUL - 2 2001
Name of Person Signing	Signature	Date

PATENT

REEL: 011972 FRAME: 0209

PATENT ASSIGNMENT FORM



WHEREAS, the Government of the United States of America desires to acquire the entire right, title and interest in and to said invention and in and to any Letters Patents wherever they may be issued thereon;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar to us in hand paid by the Government of the United States, and for other good and valuable consideration, the receipt of which is hereby acknowledged, we by these presents do sell, assign, and transfer unto the said Government of the United States, the entire right, title, and interest in and to the said invention and in and to any and all Letters Patents wherever they may be granted thereon as well as reissues and extensions of said Letters Patent, the same to be held and enjoyed by the said Government of the United States or its assigns to the full end of the term or terms for which Letters Patents are, or may be granted, reissued, or extended, as fully and entirely as the same would have been held or enjoyed by us had this assignment not been made.

We agree to make, execute, and deliver unto the Government of the United States, any and all papers, documents, affidavits, renewal, divisional and reissue applications, statements, or other instruments in such usual or other forms, with terms and contents as may be required by the United States Government, or its duly authorized representative, in or incident to the prosecution or conduct of any and all

PATENT REEL: 011972 FRAME: 0210 WITNESS:

applications, before as well as after, the issuance of any Letters Patent thereon, or in the adjustment or settlement of any interferences or other actions or proceedings that said applications may encounter or in which they may become involved, and we agree that we will aid the Government of the United States in every way in protecting the invention as may be requested, except that any expenses arising through extending such assistance will be paid for by proper arrangement with the Government of the United States.

Кольновся	free.	November 13,2000
Tatiana I. Koltsova	Albert S. Aloy	Date
WITNESS:		
Konogoba	The.	November 13,2000
Tatiana I. Koltsova	Natalia V. Sapozhnikova	Date
APPROVED and conser	sted to on this 13 day of N_0	ove mber, 2000.
WITNESS:		
Коньцова	A N	levember 13, 2000
Tatiana I. Koltsova	Name: Alexander A. Rimski Title: General Director	i-Korsakov

INVENTORS:

ACCEPTED for the benefit of the Government of the United States of America.

V. G. Khlopin Radium Institute

WITNESS:

UNITED STATES DEPARTMENT OF ENERGY

Paul A. Gottlieb

Assistant General Counsel for Technology
Transfer and Intellectual Property

RECORDED: 07/02/2001

PATENT REEL: 011972 FRAME: 0211