

FORM PTO-1619A
Expires 06/30/08
OMB 0651-0027

U.S. Department of Commerce
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PATENT

S-110,019

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Name (line 1) FRANK, Michael I. Execution Date Month 06 Day 11 Year 2007

Name (line 2) _____

Second Party

Name (line 1) _____ Execution Date Month _____ Day _____ Year _____

Name (line 2) _____

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Name (line 1) United States Department of Energy

Name (line 2) _____

Address (line 1) GC-62, MS 6F-067 (FORSTL)

Address (line 2) 1000 Independence Avenue, S.W.

Address (line 3) Washington D.C. 20585-0162
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FORM PTO-1619B
Expires 06/30/09
OMB 0651-0027

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

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Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

<input type="text" value="11/748689"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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If this document is being filed together with a new Patent Application, enter the date the patent application was filed. Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT <input type="text"/>	PCT <input type="text"/>	PCT <input type="text"/>
PCT <input type="text"/>	PCT <input type="text"/>	PCT <input type="text"/>

Number of Properties Enter the total number of properties involved. #

Fee Amount Fee Amount for Properties Listed (37 CFR 3.41): \$

Method of Payment: Enclosed Deposit Account

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the

Deposit Account Number: #

Authorization to charge additional fees: Yes No

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 of the original document. Charges to deposit account are authorized, as indicated herein.

Katherine Baldwin

9-18-07

Name of Person Signing

Signature

Date

Patent Assignment - Sole Inventor

S-110,019

11/748689

U.S. DEPARTMENT OF ENERGY
PATENT ASSIGNMENT FORM

WHEREAS, I, Michael I. Frank a citizen of the United States residing in Dublin, County of Alameda, State of California, have invented certain new and useful improvements in Plutonium Radiation Surrogate, for which I have filed an application for United States Letters Patent on 05/15/2007, identified by Serial No. 11/748,689; and; executed by me on 06/11/2007; and;

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

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of good and valuable consideration, the receipt of which is hereby acknowledged, I by these presents do sell, assign, and transfer unto the said Government of the United States, as represented by the United States Department of Energy, and/or its assigns, the entire right, title, and interest in and to the said invention and in and to any and all Letters Patent 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 to the full end of the term or terms for which Letters Patent are or may be granted, reissued, or extended, as fully and entirely as the same would have been held or enjoyed by me had this assignment not been made.

I agree to make, execute, and deliver unto the Government of the United States, or to the United States Department of Energy, any and all papers, documents, affidavits, renewal, divisional and reissue applications, statements, or other instruments in such usual or other forms, terms, and contents as may be required by the United States Department of Energy, or its duly authorized representative, in or incident to the prosecution or conduct of any and all 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 I agree that I will aid the Government of the United States in every way in protecting the invention as may be requested by the United States Department of Energy or its assigns, except that any expenses arising through extending such assistance will be paid for by proper arrangement with the Government of the United States.

WITNESS:

Kathy Raymond

INVENTOR:

[Signature] (SEAL)

6/11/2007
Date

Approved and consented to this 12 day of June, 2007

Lawrence Livermore National Laboratory

By [Signature]
John H. Lee


Deputy Laboratory Counsel for Intellectual Property (Acting)

Patent Assignment - Sole Inventor

S-110,019

Accepted for the Benefit of the Government of the United States.

UNITED STATES DEPARTMENT OF ENERGY

By 
Paul A. Gottlieb
Assistant General Counsel for Technology
Transfer and Intellectual Property

ATTEST: