

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

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

8-108, 147

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☒ Mark if additional names of conveying parties attached

Name (line 1) CHANDLER, Katherine

Execution Date
Month Day Year
10/26/2005

Name (line 2)

Second Party

Name (line 1) HAMMER, David

Execution Date
Month Day Year
10/26/2005

Name (line 2)

Receiving Party

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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

City

State/Country

Zip Code

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PATENT

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REEL: 019815 FRAME: 0631

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FORM PTO-1619B

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Page 2

U.S. Department of Commerce
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PATENT

Correspondent Name and Address

Area Code and Telephone Number

202-586-2810

Name Betty Winchester

Address (line 1) United States Department of Energy

Address (line 2) GC-62, MS 6F-067 (FORSTL)

Address (line 3) 1000 Independence Avenue, S.W.

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Pages

Enter the total number of pages of the attached conveyance document
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4

Application Number(s) or Patent Number(s)

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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)

11/215200

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application
was

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number
only if a U.S. Application Number
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Number of Properties

Enter the total number of properties involved.

1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00

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Deposit Account

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Katherine Baldwin

Name of Person Signing



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9-18-07

Date

PATENT

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FORM PTO-1619C

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PATENTS ONLY**U.S. Department of Commerce
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Name (line 1) SINARS, Daniel

Execution Date
Month Day Year
10/26/2005

Name (line 2)

Name (line 1) CHELKOVENKO, Tatiana

Execution Date
Month Day Year
11/14/2005

Name (line 2)

Name (line 1) PIKUZ, Sergei

Execution Date
Month Day Year
11/14/2005

Name (line 2)

Receiving Party

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Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

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Name (line 2)

Address (line 1)

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Patent Application Number(s)

Patent Number(s)

11/215200

FORM PTO-1619C

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PATENTS ONLYU.S. Department of Commerce
Patent and Trademark Office
PATENT**Conveying Party(ies)**☐ Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1) SUNG, ByungmooExecution Date
Month Day Year
11/14/2005Name (line 2) Name (line 1) Execution Date
Month Day Year
Name (line 2) Name (line 1) Execution Date
Month Day Year
Name (line 2) **Receiving Party**☐ Mark if additional names of receiving parties attachedName (line 1) Name (line 2) Address (line 1) Address (line 2) Address (line 3)

City

State/Country

Zip Code

Name (line 1) Name (line 2) Address (line 1) Address (line 2) Address (line 3)

City

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Zip Code

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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)

11/215200

OCT 25 2005 14:41 FR IPL DOE CH

630 252 2779 TO 713036262543 P.06/07

Joint

**U.S. Department of Energy
PATENT ASSIGNMENT FORM**

11/215200

WHEREAS, we, Katherine Chandler, David Hammer and Daniel Sinars citizens of the United States residing

in ITHACA, County of TOMPKINS, State of NEW YORK

in ITHACA, County of TOMPKINS, State of NEW YORK

in Albuquerque, County of Bernalillo, State of New Mexico

Tatiana Chelkovenko and Sergei Pikuz citizens of Russia

in _____, County of _____, State of _____;

in _____, County of _____, State of _____;

Byungmoo Sung citizen of South Korea

in _____, County of _____, State of _____;

have invented certain new and useful improvements in A System for Phase-contrast X-Ray Radiography Using X-Pinch Radiation and a Method Thereof, for which we are

about to file an application for United States Letters Patent identified as

S-108,147 and executed by us on the _____ day of _____ 20____; and on the

_____ day of _____ 20____; and on the _____ day of _____ 20____;

and on the _____ day of _____ 20____; and on the _____ day of _____

20____; and on the _____ day of _____ 20____;

WHEREAS, the Government of the United States desires to acquire the entire right, title, and interest in and to 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 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, 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 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, 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 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 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 inventions as may be requested by the United States Department of Energy or its assigns, except that any expenses arising through extending such assistance will **PATENT** or by proper arrangement with the Government of the United States. REEL: 019815 FRAME: 0635

OCT 25 2005 14:41 FR IPL DOE CH

WITNESS:

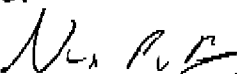


(SEAL)

WITNESS:

(SEAL)

WITNESS:

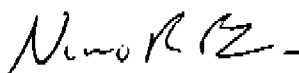


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WITNESS:

(SEAL)

WITNESS:



(SEAL)

WITNESS:

(SEAL)

ATTEST:

(SEAL)

Approved and consented to this _____ day of _____, 20 ____.

INVENTORS:

630 252 2779 TO 713036262543

P.07/07

INVENTORS:

Date

10/26/05

INVENTORS:



Date

10/26/05

INVENTORS:

Date

INVENTORS:



Date

10/26/05

INVENTORS:

Date

By

Cornell University

Its

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

WITNESS:

UNITED STATES DEPARTMENT OF ENERGY


Assistant General Counsel for Patents

PATENT

REEL: 019815 FRAME: 0636

WITNESS:

(SEAL)

WITNESS:

(SEAL)

WITNESS:

(SEAL)

WITNESS:

(SEAL)

WITNESS:

(SEAL)

WITNESS:

(SEAL)

Approved and consented to this ____ day of ____, 20 ____.

ATTEST:

(SEAL)

INVENTORS:

Date

INVENTORS:

Date

INVENTORS:

Date

INVENTORS:

Date

INVENTORS:

Date

INVENTORS:

Date

By

Cornell University

Its

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

WITNESS:

UNITED STATES DEPARTMENT OF ENERGY

Assistant General Counsel for Patents

WITNESS:

(SEAL)

WITNESS:

(SEAL)

WITNESS:

(SEAL)

WITNESS:

(SEAL)

WITNESS:

(SEAL)

WITNESS:

(SEAL)

Approved and consented to this ____ day of ____, 20 ____.

ATTEST:

(SEAL)

INVENTORS:

Date

INVENTORS:

Date

INVENTORS:

Date

INVENTORS:

Date

INVENTORS:

Date

INVENTORS:

Date

Nov. 11 / 2005

By

Cornell University

Its

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

WITNESS:

Matthew D. Baldini

UNITED STATES DEPARTMENT OF ENERGY

Assistant General Counsel for Patents