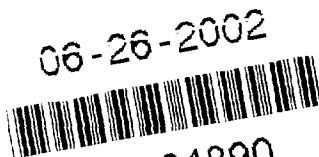


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Name (line 1) PALMISIANO, Marc N.	11	12	2001
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Second Party Name (line 1) JAKUBENAS, Kevin J.	10	29	2001
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Address (line 3) Washington D.C. 20585-0162

City State/Country Zip Code

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Name **Betty A. Winchester**

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

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Patent Application Number(s)

Patent Number(s)

09/994823

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

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1

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Name (line 1) BARANWAL, Rita

Execution Date
Month Day Year
11/06/2001

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Execution Date
Month Day Year

Name (line 2)

Name (line 1)

Name (line 2)

Receiving Party

☐ Mark if additional names of receiving parties attached

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Address (line 1)

Address (line 2)

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Application Number(s) or Patent Number(s)

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Patent Application Number(s)

Patent Number(s)

09/994823

09/999, 823

U.S. DEPARTMENT OF ENERGY
PATENT ASSIGNMENT

WHEREAS, I Marc N. Palmisiano, citizen of the United States residing in Pittsburgh,
County of Allegheny, State of Pennsylvania,
I Kevin J. Jakubenas, citizen of the United States residing in Austin,
County of Travis, State of Texas,
and I Rita Baranwal, citizen of the United States residing in Glenshaw,
County of Allegheny, State of Pennsylvania have invented certain new and
useful improvements in "Reaction-Forming Method for Producing Near Net-Shape Refractory Metal Carbides", for which we are about
to file an application for United States Letters Patent identified as S-94,534 and; executed by us on October 29, 2001;
and: November 6, 2001; and November 12, 2001.

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 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, 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 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, with 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 we agree that we 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, except that any expenses arising through
extending such assistance will be paid for by proper arrangement with the Government of the United States.

WITNESS:

[Signature]
(Signature of Witness)

INVENTOR:

Marc N. Palmisiano [Signature] (SEAL)
(Signature of Inventor)

Date 11/12/01

INVENTOR:

Kevin J. Jakubenas [Signature] (SEAL)
(Signature of Inventor)

Date 10/29/2001

WITNESS:

Kara Jakubenas 10/29/01
(Signature of Witness)

INVENTOR:

Rita Baranwal [Signature] (SEAL)
(Signature of Inventor)

Date 11/6/01

WITNESS:

[Signature] 11/6/01
(Signature of Witness)

Approved and consented to this 13th day of November, 2001.

ATTEST:

[Signature]
(SEAL)

[Signature]
(Signature of Corporate Officer)

By W. C. Rogers, Bechtel Bettis, Inc.

Its President
(Title of Corporate Officer)

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

UNITED STATES DEPARTMENT OF ENERGY

WITNESS:
Kathleen Babbis

By [Signature]
Assistant General Counsel for Technology Transfer
and Intellectual Property