

FORM PTO-1619A

Expires 06/30/99
OMB 0851-0027U.S. Department of Commerce
Patent and Trademark Office
PATENT

S-101,700

RECORDATION FORM COVER SHEET
PATENTS ONLY

TO: The Director of the United States Patent and Trademark Office: Please record the attached original document(s) or copy(ies).

Submission Type

☒ New☐ Resubmission (Non-Recordation)

Document ID#

☐ Correction of PTO Error

Reel #

Frame #

☐ Corrective Document

Reel #

Frame #

Conveyance Type

☒ Assignment☐ Security Agreement☐ License☐ Change of Name☐ Merger☐ Other

U.S. Government

(For Use ONLY by U.S. Government Agencies)

☒ Departmental File☐ Secret File

Conveying Party(ies)

☐ Mark if additional names of conveying parties attached

Name (line 1) NOVICK, Vincent J.

Execution Date
Month Day Year
8/5/2003

Name (line 2)

Second Party

Name (line 1) AHLUWALIA, Rajesh K.

Execution Date
Month Day Year
8/5/2003

Name (line 2)

Receiving Party

☐ Mark if additional names of receiving parties attached

Name (line 1) United States Department of Energy

Name (line 2)

Address (line 1) 1000 Independence Avenue, S.W.

Address (line 2)

Address (line 3) Washington

DC

20585-0162

City

State/Country

Zip Code

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

FOR OFFICE USE ONLY

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 (0851-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0851-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS

Mail documents to be recorded with required cover sheet(s) information to:

Mail Stop Assignment Recordation Services, Director of the United States Patent and Trademark Office,
P.O. Box 1450, Alexandria, VA 22313-1450

700071712

REEL: 014421 FRAME: 0833

CH \$40.00 012752 10642240

FORM PTO-1619B

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 A. Winchester

Address (line 1) U. S. Department of Energy

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

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

Address (line 4) Washington, D. C. 20585-0162

Pages

Enter the total number of pages of the attached conveyance document
including any attachments.

2

Application Number(s) or Patent Number(s)

☐ Mark if additional numbers attached

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

Patent Application Number(s)

10/642240

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
has not been assigned.

PCT

PCT

PCT

PCT

PCT

PCT

Number of Properties

Enter the total number of properties involved.

1

Fee Amount

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

40.00

Method of Payment:

Enclosed ☐Deposit Account ☒

Deposit Account

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

Deposit Account Number:

01-2752

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 L. Baldwin

Name of Person Signing



Signature

MAR 12 2004

Date

PATENT

REEL: 014421 FRAME: 0834

Joint

U.S. Department of Energy
PATENT ASSIGNMENT FORM

10/642,240

WHEREAS, we, Vincent J. Novick and Rajesh K. Ahluwalia citizens of the United States residing in Downers Grove County of Du Page, State of IL:
in Burr Ridge, County of Cook, State of IL:
have invented certain new and useful improvements in METHOD AND APPARATUS FOR ATOMIZING FLUIDS WITH A MULTI-FLUID NOZZLE for which we are about to file an application for United States Letters Patent, identified as S-101,700 and executed by us on the 5th day of August 2003: and on the 5th day of August 2003:

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 be paid for by proper arrangement with the Government of the United States.

- 2 -

WITNESS:

Sandra A. Classen
(SEAL)

INVENTORS:

Vincent J. Monik
Date 8-5-03

WITNESS:

Sandra A. Classen
(SEAL)

INVENTORS:

Rajesh K. Ahluwalia
Date 8-5-03

Approved and consented to this 12th day of August, 20 03

ATTEST:

Mary Ann Heprig
(SEAL)

Renee K. Carder

By Renee K. Carder, Ph.D.
Assistant Vice President for Program
Development, Office of the Vice
President for Research

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

UNITED STATES DEPARTMENT OF ENERGY

WITNESS:

Kathleen Balaban

By _____
Assistant General Counsel for Patents