

FORM PTO-1619A

Expires 06/30/99  
OMB 0651-0027

03-05-1999

U.S. Department of Commerce  
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PATENT



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FORM PTO-1619B

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U.S. Department of Commerce  
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PATENT

## Correspondent Name and Address

Area Code and Telephone Number

Name Kathy Bayer

Address (line 1) National Aeronautics and Space Admin

Address (line 2) 300 "E" Street, SW., Code GP

Address (line 3) Washington, DC 20546

Address (line 4)

## Pages

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1

## Application Number(s) or Patent Number(s)

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Patent Application Number(s)

09114346

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was  
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## Patent Cooperation Treaty (PCT)

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attached copy is a true copy of the original document. Charges to deposit account are authorized, as  
indicated herein.*

Kathy Bayer

Name of Person Signing

Signature

02/24/99

Date

In accordance with a contract set forth below between the Government of the United States of America, as represented by the Administrator of the National Aeronautics and Space Administration (NASA) and the below-named Contractor, the invention cited below is a SUBJECT INVENTION made in the performance of work under the contract, and ☒ the Contractor has elected to retain title to the SUBJECT INVENTION; or ☐ the Contractor has elected not to retain title to the SUBJECT INVENTION; and NASA, after consultation with the Contractor, has granted the request for retention of rights by the Inventor, and employee of the Contractor, subject to the provisions of 35 U.S.C. § 202(d) and FAR 52.227-11, Patent Rights-Retention by the Contractor, but subject to a license to the Government, as described below.

NOW THEREFORE, pursuant to the terms and conditions of the contract, the Contractor/Inventor does hereby grant to the Government of the United States a non-exclusive, non-transferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States this SUBJECT INVENTION and any patents which may issue thereon throughout the world. At this time at least the following U.S. patent application has been filed on the SUBJECT INVENTION.

Title: DELTA-DOPED HYBRID ADVANCED PARTICLE DETECTOR FOR LOW ENERGY PARTICLE  
DETECTION

Contractor: California Institute of Technology

Patent Application Serial No.: 09/114,346

Filed: 7/13/98

Patent No.:

Issue Date:

Contract No. NAS7-1260\*

Contractor Case No.: CIT 2655

NASA Case No.: NPO 20111

Inventor(s): Thomas J. Cunningham, Shouley Nikzad, Bedabrata Pain, George A. Soli,  
Eric R. Fossum

The Contractor/Inventor agrees to include, within the specification of any United States patent applications and any patents issuing thereon covering this SUBJECT INVENTION, the following statement as in FAR 52.227-11(f)(4):

*"This invention was made with Government support under contract NAS7-1260 awarded by NASA. The Government has certain rights in this invention."*


The Contractor/Inventor further agrees to notify the NASA of any decision not to continue prosecution of the application(s), pay maintenance fees, or defend in a reexamination or opposition proceeding on a patent, in any country, not less than thirty days before the expiration period required by the U.S. Patent and Trademark Office.

Title to this Invention is subject to the March-In-Rights by the NASA as stated in 35 U.S.C. § 203 and FAR 52.227-11(j).

The Contractor/Inventor shall furnish a copy of the patent application cited above and a listing of each country in which applications have been and are filed. Whenever a patent issues on the SUBJECT INVENTION, the patent number, the issue date, and the country shall be made known to the Government as soon as it is available to the Contractor/Inventor.

**Adam Cochran**  
**The Intellectual Property Counsel**

(Typed name and title of Corporate Officer)

 2/12/99  
(Signature and date)