

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

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

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8-88,8,81

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

Name (line 2)

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

Address (line 2)

Address (line 3) Washington

D.C.

20585-0162

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FORM PTO-1619B  
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U.S. Department of Commerce  
Patent and Trademark Office  
PATENT

## Correspondent Name and Address

Area Code and Telephone Number

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## Pages

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

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Patent Application Number(s)

Patent Number(s)

5,776,864

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  
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Brenda K. Banks

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Brenda K Banks

Signature

5/18/05

Date

Pat. 5,776,864

DOE Docket No.:

S-88,881

ANL Case No.:

ANL-IN-94-102b

## CONFIRMATORY LICENSE

Application for: LARGE SINGLE DOMAIN 123 MATERIAL PRODUCED BY SEEDING  
WITH SINGLE CRYSTAL RARE EARTH BARIUM COPPER OXIDE  
SINGLE CRYSTALS

Inventor(s): Volker Todt, Dean J. Miller, Donglu Shi, and Suvankar Sengupta

Serial No.: 03/834,687

Filing Date: April 1, 1997

Contract No.: W-31-109-ENG-38

Contractor: The University of Chicago

The invention identified above is a "Subject Invention" under the above-numbered contract. A copy of the provisions of the above-numbered contract (certified on February 8, 1996) governing patent rights in the Subject Invention at the time the invention was made has been submitted to the U.S. Department of Energy.

The Contractor hereby confirms that under the provisions of the above-numbered contract governing patent rights, it has granted to the Government a nonexclusive, nontransferable, irrevocable, paid-up license to practice or to have practiced for or on behalf of the United States the subject invention throughout the world. This license applies to the invention in the above-identified patent application and any and all divisions or continuations thereof and any resulting patent or reissue patent which may be granted thereon.

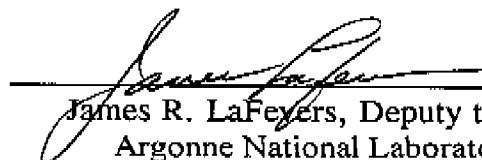
It is understood and agreed that this document does not preclude the Government from asserting rights under the provisions of said contract or any other agreement between the Government and the Contractor, or any other rights of the Government with respect to the above-identified invention.

The Contractor hereby grants the Government an irrevocable power to inspect and make copies of the above-identified application.

Signed this 1st day of July, 1997

THE UNIVERSITY OF CHICAGO (Contractor)

By:

  
James R. LaFeyers, Deputy to Vice President for  
Argonne National Laboratory