

FORM PTO-1619A

Expires 06/30/98  
OMB 0651-0027U.S. Department of Commerce  
Patent and Trademark Office  
PATENT

S-105,022

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FORM PTO-1619B

Expires 08/30/99  
OMB 0851-0027

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

## Correspondent Name and Address

Area Code and Telephone Number

202-586-2805 (FAX)

Name Brenda K. Banks

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

Address (line 2) 1000 Independence Avenue, S.W.

Address (line 3) Washington, D. C. 20585-0162

Address (line 4) Telephone (Voice): 202-586-2802

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

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Patent Application Number(s)

Patent Number(s)

11/368,550

If this document is being filed together with a new Patent Application, enter the date the patent application  
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5/19/06

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11/368,550

DOE Docket ID1416.0  
S-105,022

## CONFIRMATORY LICENSE

Title: Ferroelectric Tunneling Element and Memory Applications Which Utilize the Tunneling Element  
Inventor(s): Sergei V. Kalinin, Hans M. Christen, Arthur P. Baddorf, Vincent Meunier, and Ho Nyung Lee  
Serial No.: 11/368,550  
Filing Date (U.S.): March 6, 2006  
Contractor: UT-Battelle, LLC  
DOE Contract No.: DE-AC05-00OR22725

The invention identified above is a "Subject Invention" under the above-numbered contract. A copy of the provision of the above-numbered contract (certified on 04-13-06) 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 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 agent 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 6<sup>th</sup> day of April, 2006.

UT-Battelle, LLC

By Casey Porto  
Director, Office of Technology Transfer