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Correspondent Name and Address

Area Code and Telephone Number

202-586-2802

Name **Betty A. Winchester**

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)

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Application Number(s) or Patent Number(s)

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Patent Application Number(s)

Patent Number(s)

10/044,488

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Patent Cooperation Treaty (PCT)

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CONFIRMATORY LICENSE

Application for: **ELECTRICALLY PUMPED EDGE-EMITTING PHOTONIC
BANDGAP SEMICONDUCTOR LASER**
Inventor(s): **Shawn-Yu Lin and Walter J. Zubrzycki**
Serial Number: **10/044,488**
Filing Date: **1/09//02**
Contract No.: **DE-AC04-94AL85000**
Contractor: **Sandia Corporation**

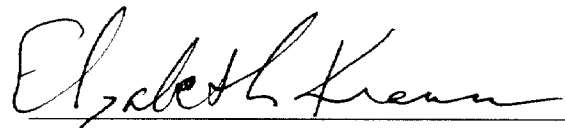
The invention identified above is a "Subject Invention" under the above-numbered contract. A copy of the provisions of the above-numbered contract certified on January 9, 1996, governing patent rights in the Subject Invention at the time the invention was made, has been submitted to the U. S. Department 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 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 Contract hereby grants the Government an irrevocable power to inspect and make copies of the above-identified application.

Signed this 4 day of February, 2002.


Elizabeth D. Krauss, Senior Attorney
Deputy to the General Counsel

If the invention was made under a subcontract, please identify the Prime Contractor:

_____, Prime Contract No. _____