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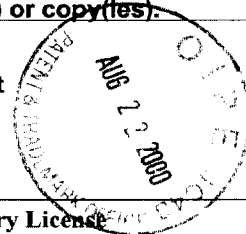
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Execution Date  
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**PATENT**

REEL: 011015 FRAME: 0224

**Correspondent Name and Address**

Area Code and Telephone Number

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Name Robert J. Fisher

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

Address (line 2) Office of Intellectual Property Law

Address (line 3) 9800 S. Cass Ave

Address (line 4) Argonne, IL 60439

**Pages**

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# 01

**Application Number(s) or Patent Number(s)**

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

**Patent Application Number(s)**

**Patent Number(s)**

09/543,380

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)**

Enter PCT application number only if a U.S. Application Number has not been assigned.

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#

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41): \$ 0.00

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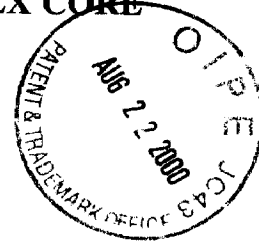
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Signature

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## CONFIRMATORY LICENSE

Application for: **PLANAR OPTICAL WAVEGUIDES FOR OPTICAL PANEL  
HAVING GRADIENT REFRACTIVE INDEX CORE**  
Inventor(s): **James T. Veligdan**  
Serial No.: **09/543,380**  
Filing Date (U.S.): **4/5/00**  
Contract No.: **DE-AC02-98CH-10886**  
Contractor: **Brookhaven Science Associates**



The invention identified above is a "Subject Invention" under the above-numbered contract. A copy of the provisions of the above-numbered contract (executed on January 5, 1998) 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 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 12<sup>th</sup> day of July, 2000.

BROOKHAVEN SCIENCE ASSOCIATES/  
BROOKHAVEN NATIONAL LABORATORY

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