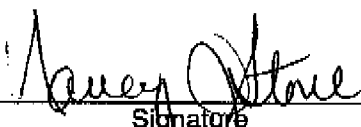


Form PTO-1595, 1/31/92		RECORDATION COVER SHEET U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
PATENTS ONLY			
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.			
1. Name of conveying party(ies): 1. U.S. Department of Energy 1000 Independence Avenue, S.W. Washington, D.C. 20585 Attorney Docket No.: IL-8632		2. Name and Address of receiving party(ies): 1. The Regents of the University of California 1111 Franklin Street Oakland, CA 94607-5200	
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment Execution Date: July 27, 2004			
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is:			
A. Patent Application No.(s) 07/850,634 filed March 13, 1992		B. Patent No.(s) 5,218,515 issued June 8, 1993	
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Alan H. Thompson Address: Lawrence Livermore Nat. Laboratory Patent Group, L-703 Box 808, L-703 Livermore, CA 94551		6. Total Number of applications and patents involved: ONE	
		7. Total fee \$ 40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized charge deposit account	
		8. Deposit Account number: 12-0695	
DO NOT USE THIS SPACE			
9. Statement and Signature To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.			
Nancy J. Stone Name of Person Signing		Signature 	
		Date September 16, 2004	
		Total number of pages comprising cover sheet 1	

LLNL Patent Group

March 1993

CH \$40.00 120695 6218515

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PATENT
REEL: 015147 FRAME: 0937

*Class Waiver Filed in the Name of
the Government*

ASSIGNMENT AND CONFIRMATORY LICENSE

**Title: "Microchannel Cooling of Face Down Bonded
Chips"**

Inventor(s): Anthony F. Bernhardt

Contract Number: W-7405-ENG-48

Contractor Docket No: IL-8632

Contractor: Regents of the University of California

(Lawrence Livermore National Laboratory)

DOE Docket No: S-72,195 (RL-11218)

U.S. Patent Application S.N: 07,850,634

Filing Date: March 13, 1992

U.S. Patent No: 5/218,515

Issue Date: June 8, 1993

Class Waiver Number: W(C) 1996-004

Foreign patent applications filed or intended to be filed at contractor's expense: None.

The Contractor certifies that a true copy of the provisions which govern patent rights in "subject inventions" under the above-identified contract has been previously submitted to the U.S. Department of Energy by certification dated February 29, 1996.

WHEREAS, the above-identified invention is a subject invention under the above-identified contract;

WHEREAS, the Government of the United States, as represented by the U.S. Department of Energy has been assigned the entire right, title and interest in and to the above-identified invention in the United States; and

WHEREAS, a waiver of Government rights in the above-identified invention, having an effective date of November 6, 2000, has been granted to the Contractor.

NOW, in conformity with said waiver of Government rights, the Government of the United States as represented by the U.S. Department of Energy, HEREBY ASSIGNS AND TRANSFERS to the Contractor the entire right, title and interest to the above-identified invention, including the above-identified patent applications and any resulting patents, EXCEPT FOR a paid-up license under the above-identified contract and the above-identified waiver and such other rights required under 10 CFR 784 to be retained or reserved to the Government.

ACCORDINGLY, the Contractor hereby confirms that under the provisions of the above-identified contract governing patent rights and the above-identified waiver, 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 above-identified invention, the above-identified patent application(s), and any and all divisions or continuations thereof and any resulting patent or reissue patent which may be granted thereon. This instrument is also confirmatory of the rights required to be granted to the Government under 10 CFR 784 where a waiver is granted to an invention, patent application, and any resulting patent, and of all other rights reserved to the Government under 10 CFR 784.

The Government reserves for itself, and is hereby granted by the Contractor, the irrevocable power to inspect and make copies of the file wrapper(s) of the above-identified U.S. patent application and of any related or continuation patent application(s), whether domestic or foreign, for the above-identified invention.

It is understood and agreed that this instrument does not preclude the Government from asserting rights under the provisions of the above-identified 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.

Approved and granted on behalf of the Government of the United States.

UNITED STATE DEPARTMENT OF ENERGY

By: Paul A. Gottlieb

Paul A. Gottlieb
Assistant General Counsel for Technology
Transfer and Intellectual Property

Date 7-27-04

Witness: Kather Balshi

Approved, accepted and consented to on behalf of The Regents of the University of California

Witness: Nancy J. Stone

(Signature)

Nancy J. Stone

(Print/Type Name and Title)

By: Alan H. Thompson

(Official's Signature)

Alan H. Thompson, Deputy Patent Counsel

(Print/Type Official's Name and Title)

Date 6/29/04

RECORDED: 09/16/2004

**PATENT
REEL: 015147 FRAME: 0938**