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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

University of California

Name and address of receiving party(ies):

Name: United States Air Force

Additional name(s) of conveying party(ies) attached? ☒ No

Internal Address: AFOSR/JA

3. Nature of conveyance:

- ☐ Assignment ☐ Merger
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Street Address: 801 North Randolph St Rm 732

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Execution Date(s): 20 April 97 DEC 13 1999

☒ This instrument should be recorded on the governmental register in accordance with 37 CFR 7.1(e)(4).Additional name(s) & address(es) attached? ☐ Yes ☒ No

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):

08/767,935

B. Patent No.(s):

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: United States Air Force

Internal Address: AFOSR/JA

Street Address: 801 North Randolph St Rm 732

City: Arlington

State: Virginia ZIP: 22203-1977

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41)\$ 0

☐ Enclosed ☒ Not applicable

The instrument to be recorded is not an instrument affecting title (37 CFR 7.1(e)(2) and (j)).

8. Deposit account number:

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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.

MARSHALL CAGGIANO, Lt Col, USAF
Staff Judge Advocate

Name of person signing

Signature

November 30, 1999

Total number of pages including cover sheet, attachments, and document:

2

PATENT
REEL: 010445 FRAME: 0572



UC Case No. 97-092-1

CONFIRMATORY INSTRUMENT

Application for: "Heterostructure Thermionic Coolers"

Inventor(s): John E. Bowers and Ali Shakouri

Serial No: 08/767,935

Contract No:

Filing Date: 12/17/96

Contractor: The Regents of the University of California

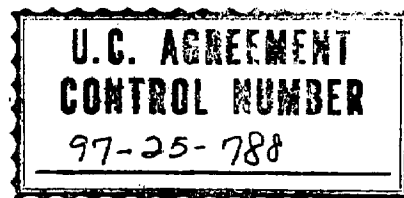
The Invention identified above is a "Subject Invention" under Patent Rights clause, 37-CFR-PART-401 included in Contract No. F49620-96-1-0349 with AIR FORCE OFFICE OF SCIENTIFIC RESEARCH which does not include the communications satellite paragraph of DAR 7-302.23(g).

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The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application.

Signed this 20th day of (month), 1997

By: Linda S. Stevenson
Title: Principal Prosecution Analyst
University of California
Office of Technology Transfer



RECORDED: 12/13/1999

PATENT
REEL: 010445 FRAME: 0573