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To the Honorable Commissioner of Patent

102456102

attached original documents or copy thereof.

1. Name of conveying party(ies): 5-14-03
Northrop Grumman

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

2. Name and address of receiving party(ies):

Name: United States Air Force

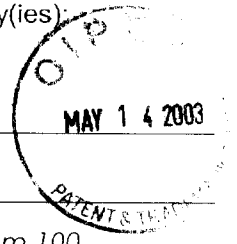
Internal Address: AFMC LO/JAZ

Street Address: 2240 B Street, Room 100

City: Wright-Patterson Air Force Base

State: Ohio Zip: 45433-7109

Additional name(s) & address(es) attached? Yes No



3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other Confirmatory License

Execution Date(s): March 28, 2003

This instrument should be recorded on the governmental register in accordance with 37 CFR 7.1(e)(1).

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):
10/354,306

B. Patent No.(s):

Additional numbers attached? Yes No

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

Name: Fredric L. Sinder

Internal Address: AFMC LO/JAZ

Street Address: 2240 B Street, Room 100

City: Wright-Patterson Air Force Base

State: Ohio ZIP: 45433-7109

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 3.41(b)).

8. Deposit account number:
(Attach duplicate copy of this page if paying by deposit account)

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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.

Fredric L. Sinder

[Handwritten Signature]

April 30, 2003

Name of person signing

Signature

Date

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

CONFIRMATORY LICENSE

Application for: SOLDERING OF SADDLES TO LOW EXPANSION ALLOY
HEAT PIPES
Inventor(s): Chris R. Wiacek and Hiroo H. Mahtani
Serial No.: 10/354,306
Filing Date (U.S.): January 30, 2003
Contract No.: TMC96-5835-0094-03
Contractor: Northrop Grumman Space & Mission Systems Corp.
(Formerly TRW Inc.)
**Foreign Applications filed or intended to be filed at
Contractor's expense in (countries):** None Known

The invention identified above is a "Subject Invention" under Patent Rights clause 52.227-12, included in Contract No. TMC96-5835-0094-03 with the appropriate Government Entity.

Accordingly, this document is confirmatory of the paid-up license required to be granted to the Government under Clause 52.227-12(b) of this contract in this invention, patent application and any resulting patent, and of all other rights acquired by the Government by the referenced clause, a copy of which is attached hereto and incorporated by reference herein. The undersigned certifies the attached copy to be a true copy of said clause. It is understood and agreed that this license does not preclude the Government from asserting rights under the provisions of said contract or of any other agreement between the Government and the Contractor, or any other rights of the Government with respect to the above-identified invention.

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

Signed this 28th day of March, 2003.

By: Kathleen M. Salmas
Kathleen M. Salmas
Secretary

Address: Northrop Grumman Space Technology &
Mission Systems Corp.
1840 Century Park East
Los Angeles, CA 90067-2199

DOCKET NO. 11-1202

PATENT
REEL: 014087 FRAME: 0445

**52.227-12(b) Patent Rights - Retention
by the Contractor**

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