		CORDATION FC	04-29	-2003	,	DEPARTMENT OF COMMERCE Patent and Trademark Office
FOF	м рто-1595	PATEN				320-98-1-0011
	4-24-03	PE				, <u>20-30-1-0011</u>
1.	Name of conveying party(ies):	APR 2 4 2003	10243	33 <u>06</u>	o receiv	ring party(ies):
C4	nfoud University					
Stanford University			United States Air Force			
Ad di	dditional name(s) of conveying party(ies) attached? ☐ Yes ☑ No		Internal Address: AFOSR/JA			
3.	lature of conveyance:		Street Address: 801 N. Randolph Street – Room 732			
		Merger Change of Name ense	City:	Arlington		
Exe	cution Date(s): 24 March 2003		State:	Virginia		Zip: 22203-1977
⊠ tal	This instrument should be recorded on the governmenegister in accordance with 37 CFR 7.1(e)(1). Additional name(s) & address(es) attached? Yes No					
4.	Application number(s) or patent nu	mber(s):				
	If this document is being filed together with a new application, the execution date of the application is:					
	A. Patent Application No.(s):		B. Patent No.(s):			
	, , , , , , , , , , , , , , , , , , ,			()		5,480
			<u></u>			
5.	Name and address of party to whom correspondence concerning document should be mailed:		6. Total nu	mber of app	lications a	nd patents involved:
Na	ne: United States Air	Force		(0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	5.44	
Inte	rnal Address: AFOSR/JA		7. Total fe		3.41)	
Str	et Address: 4015 Wilson Blvd	1 - Rm 713		closed ment to be	recorde	⊠ Not applicable d is not an instrument
			affecting ti			
Cit	Arlington					
Sta	te: Virginia ZIP:	22203-1954	'	t account n		e if paying by deposit account)
		DO NOT USE	<u> </u>			o ii payiiig by deposit decediii,
		DO NOT 031	- IIIIS SPAC	' L		
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.						
TIMOTHY A. HICKS, Maj, USAF Staff Judge Advocate Twy Hyd Hules 9 APRO 3						
	Name of person signing	Signatu	ire achmente and	I document	3	Date
Total number of pages including cover sheet, attachments, and document: $oldsymbol{3}$						

PATENT REEL: 013986 FRAME: 0664

LICENSE TO THE UNITED STATES GOVERNMENT

Invention Title: Operating Characteristics of a Linear Hall Thruster

Inventors: Mark A. Cappelli, William Hargus, and Nathan Meezan

Patent or Application Serial No: 6525480

U.S. Filing / Issue Date: 2/25/03

Agency: Air Force Office of Scientific Research

Grant / Contract: **AFOSR F49620-98-1-0011**

Grantee / Contractor File: S99-117

Foreign Applications:

The invention identified above is a Subject Invention under 35 U.S.C. 200, et seq., and the Standard Patent Rights clause at 37 CFR 401.14 of FAR 52.227-11, which are included among the terms of the above-identified grant/contract award from the above agency. This document is confirmatory of:

- 1. The Nonexclusive, nontransferable, irrevocable, paid-up license granted to the Federal Government in the invention described in the patent application and in any and all divisions, continuations, and continuations in part, and in any and all patents and re-issues granted thereon; and
- 2. All other rights acquired by the Government by reason of the above identified grant/contract award and the laws and regulations which are applicable to the award.

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

Signed this 24th day of March, 2003

By: I Wharme Ku

RECORDED: 04/24/2003

Katharine Ku, Director, Office of Technology Licensing

For: The Board of Trustees of the Leland Stanford Junior University

At: Stanford University, Office of Technology Licensing, 1705 El Camino Real, Palo Alto, CA

94306-1106

PATENT REEL: 013986 FRAME: 0665