SUBSTITUTE RE 03-21 2	U.S. DEPARTMENT OF COMMERCE
FORM PTO-1595 5 700 1	Patent and Trademark Office
" MYS O " "	F49620-97-1-0430
1 Name of coldination and visions: 1020268	address of receiving party(ies):
1. Name of conveying party(ies):	address of receiving party(ics).
California Institute of Technology 3 - 5 - 02	United States Air Force
Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No	Internal Address: AFOSR/JA
3. Nature of conveyance:	Street Address: 801 N. Randolph Street – Room 732
 ☐ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☑ Other Confirmatory License 	City: Arlington State: Virginia Zip: 22203-1977
Execution Date(s): 07 February 2002	State. Virginia Zip. 2200 1777
☑ This instrument should be recorded on the governmental register in accordance with 37 CFR 7.1(e)(1).	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):	B. Patent No.(s):
10/007,630	
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
Name: United States Air Force	
Internal Address: AFOSR/JA	7. Total fee (37 CFR 3.41)\$ 0
Street Address: 801 N. Randolph Street - Rm 732	☐ Enclosed ☑ Not applicable
	The instrument to be recorded is not an instrument affecting title (37 CFR 7.1(e)(2) and (j)).
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PATENT REEL: 012689 FRAME: 0337

License to the United States Government

Invention Title: Duel-Wavelength Hybrid Waveguide Coupler

Inventors: Ming Cai; Kerry Vahala

Patent Application Serial No: 10/007,630

US Filing/Issue Date: 11/9/2001

Grant/Contract Identification No: F49620-97-1-0430

Foreign Applications filed/intended in (countries):

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 or FAR 52.227-11, which are included among the terms of the above-identified grant/contract award from the Air Force (AFOSR). This document is confirmatory of:

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

> California Institute of Technology 1200 E. California Boulevard

Pasadena, California 91125

Dated:January 29, 2002

RECORDED: 03/05/2002

Adam Cochran

The Intellectual Property Counsel

CIT File No: 3345

PATENT REEL: 012689 FRAME: 0338