Docket No.: CIT.PAU.20 01-27-2003 FORM PTO-1595 (Modified) ! SHEET U.S. DEPARTMENT OF COMMERCI (Rev. 03-01) Patent and Trademark Office OMB No. 0651-0027 (exp.5/31/2002) P08/REV03 Tab settings → → 102348666 Please record the attached original documents or copy thereof. To the Honorable Commissioner o 1. Name of conveying party(ies): Name and address of receiving party(ies): Abhijit Biswas Name: California Institute of Technology Babak Sanii Malcolm W. Wright Internal Address: Norman Page ☐ Yes ☒ No Additional names(s) of conveying party(ies) 3. Nature of conveyance: Street Address: 1200 East California Boulevard ☑ Assignment ☐ Merger □ Change of Name Security Agreement City: Pasadena ZIP: 91125 State: CA Execution Date: 11/19/02, 11/20/02, 11/19/02, 11/20/02 ⊠ No Application number(s) or patent numbers(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) 10/299,121 Additional numbers attached? ☐ Yes ☑ No 5. Name and address of party to whom correspondence Total number of applications and patents involved: concerning document should be mailed: Name: Daniel L. Dawes 7. Total fee (37 CFR 3.41):....\$ 40.00 Internal Address: MYERS, DAWES & ANDRAS LLP Enclosed - Any excess or insufficiency should be credited or debited to deposit account Authorized to be charged to deposit account 8. Deposit account number: Street Address: 19900 MacArthur Boulevard 01-1960 **Suite 1150** (Attach duplicate copy of this page if paying by deposit account) State: CA ZIP: 92612 City: Irvine 00000223 10299121 DO NOT USE THIS SPACE 01/24/2003 DBYRNE 9_Statement and signature. 40.00 DP To the best of my knowledge and belief, the foregoing information is/frue and correct/and any attached copy is a true copy of the original document. Jan. 16, 2003 Daniel L. Dawes Name of Person Signing Signature Date

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

CIT.PAU.20

ASSIGNMENT

CIT Case No. 3333

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S),

Abhijit Biswas

hereby sells, assigns and transfers to ASSIGNEE, California Institute of Technology, having its statewide administrative offices located at 1200 East California Boulevard, Pasadena, California 91125, and the successors, assigns and legal representatives of the ASSIGNEE, all of its rights, title and interest for the United States and its territorial possessions and in all foreign countries in and to, any and all improvements which are disclosed in the invention entitled:

Method and Apparatus for a Multibeam Beacon Laser Assembly for Optical Communications

and whic	ch is found in						
(a)	U.S. provisional application filed herewith and listing the above named persons as inventors						
(p)	U.S. patent application filed herewith and listing the above named persons as inventors						
(c) <u>X</u>	U.S. application serial no.	10/299,121	, filed on	11/19/02			
and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, continuation-in-part, extension, conversion to 35 USC 111(a) or substitute thereof, and any reissue, reexamination or extension of said Letters Patent and all under all International Conventions for the Protection of Industrial Property; ASSIGNOR(S) hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment; ASSIGNOR(S) further covenants that the ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation, or proceeding relating thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof. An attorney of record is authorized and requested by the execution of this assignment to insert into this assignment the filing date and serial number of said application when officially known.							
States an	ASSIGNOR(S) requests the id any reissue or extension to	 Commissioner of Patents hereof to the ASSIGNEE, (and Trademarks to is California Institute of T	ssue said Letters Patent of the Unite Technology			
executed	this		Signature of Invento	or(s)			
19th	day of <u>No vember</u> , 20 <u>0</u>	<u>02</u>	Abhijit Biswas	TAS			

Received Time Nov.19. 3:20PM

PATENT REEL: 013683 FRAME: 0451

CIT.PAU.20

ASSIGNMENT

CIT Case No. 3333

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S),

Babak Sanii

nereby sells, assigns and transfers to ASSIGNEE, California Institute of Technology, having its statewide administrative offices located at 1200 East California Boulevard, Pasadena, California 91125, and the successors, assigns and legal representatives of the ASS/GNEE, all of its rights, title and interest for the United States and its territorial possessions and in all foreign countries in and to, any and all improvements which are disclosed in the invention entitled:

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(c) <u>X</u> U.	.S. application serial no 10/299,121	, filed on _	11/19/02			
	.S. Patent No.:					
conversion to under all	al equivalent thereof in a foreign country, including for said invention by the above application of to 35 USC 111(a) or substitute thereof, and any full International Conventions for the Protection of Inc.	or any continuation, dividention of the second of the seco	vision, continuation of se	on-in-part, extension, aid Letters Patent and		
entered into	 .(S) hereby covenants that no assignment, sale which would conflict with this assignment; 	e, agreement or encum	ibrance has beer	n or will be made or		
and docume to ASSIGNO execute and for obtain, r which may b	(S) further covenants that the ASSIGNEE will, usents relating to said invention and said Letters Properties and will testify as to the same in any interfered deliver to ASSIGNEE or its legal representative maintain, issue or enforce said application, said in the purpose of this assignment to insert into this assignment.	atent and legal equivalence, litigation, or process any and all papers, instituted the test and said Lettens thereof. An attorney	ents as may be keding relating ther truments or affidates Patent and sail of record is authors.	nown and accessible reto and will promptly wits required to apply dequivalents thereof		
AND the <u>AS</u> States and a	SIGNOR(S) requests the Commissioner of Pater any reissue or extension thereof to the ASSIGNE	nts and Trademarks to E, California Institute of	issue said Letters Technology.	s Patent of the United		
executed thi	is	Signature of Invent	or(s)			
20 day	of November, 2002	BABAK SANII	~			

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PATENT REEL: 013683 FRAME: 0452

CIT.PAU.20

ASSIGNMENT

CIT Case No. 3333

and which is found in

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S),

Malcolm W. Wright

hereby sells, assigns and transfers to ASSIGNEE, California Institute of Technology, having its statewide administrative offices located at 1200 East California Boulevard, Pasadena, California 91125, and the successors, assigns and legal representatives of the ASSIGNEE, all of its rights, title and interest for the United States and its territorial possessions and in all foreign countries in and to, any and all improvements which are disclosed in the invention entitled:

Method and Apparatus for a Multibeam Beacon Laser Assembly for Optical Communications

(a)	U.S. provisional application filed herewith and listing the above named persons as inventors				
(b)	U.S. patent application filed herewith and listing the above name	ed persons a	as inventors		
(c) <u>X</u>	U.S. application serial no. 10/299,121	, filed on	11/19/02		
(d)	U.S. Patent No.:	, issued			
and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, continuation-in-part, extension, conversion to 35 USC 111(a) or substitute thereof, and any reissue, reexamination or extension of said Letters Patent and all under all International Conventions for the Protection of Industrial Property;					
ASSIGNOR(S) hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;					
and docu to ASSIG execute a for, obtain which ma	<u>OR(S)</u> further covenants that the ASSIGNEE will, upon its requiments relating to said invention and said Letters Patent and legiNOR and will testify as to the same in any interference, litigation and deliver to ASSIGNEE or its legal representative any and all performance in the property of the purposes thereof. It is necessary or desirable to carry out the purposes thereof. It is necessary or desirable to carry out the purposes thereof. It is necessary or desirable to insert into this assignment the filing known.	pal equivalen n, or proceed papers, instru l said Letters An attornev c	its as may be known and accessible ling relating thereto and will promptly ments or affidavits required to apply Patent and said equivalents thereof of record is authorized and requested		
AND the <u>ASSIGNOR(S)</u> requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States and any reissue or extension thereof to the ASSIGNEE, California Institute of Technology.					
executed	this Signatu	re of Invento	r(s)		
19 th	tay of November 2002 Ma	lah 1	1.1 Sept		

Malcolm W. Wright

Received Time Nov.19. 3:20PM

PATENT REEL: 013683 FRAME: 0453

ASSIGNMENT

CIT Case No. 3333

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S),

Norman Page

hereby sells, assigns and transfers to ASSIGNEE, California Institute of Technology, having its statewide administrative offices located at 1200 East California Boulevard, Pasadena, California 91125, and the successors, assigns and legal representatives of the ASSIGNEE, all of its rights, title and interest for the United States and its territorial possessions and in all foreign countries in and to, any and all improvements which are disclosed in the invention entitled:

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(d) U.S. Patent No.:	, issued				
and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, continuation-in-part, extension, conversion to 35 USC 111(a) or substitute thereof, and any reissue, reexamination or extension of said Letters Patent and all under all International Conventions for the Protection of Industrial Property;					
ASSIGNOR(S) hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;					
ASSIGNOR(S) further covenants that the ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation, or proceeding relating thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof. An attorney of record is authorized and requested by the execution of this assignment to insert into this assignment the filing date and serial number of said application when officially known.					
AND the <u>ASSIGNOR(S)</u> requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States and any reissue or extension thereof to the ASSIGNEE, California Institute of Technology.					
executed this Sign	ature of Inventor(s)				
20 day of November, 2002	Momman A. lage				

PATENT RECORDED: 01/22/2003 REEL: 013683 FRAME: 0454