FORM PTO-1595 (Modified) (Rev. 03-01)	02-20-200	SHEET	U.S. DEPARTMENT OF COMMER	
OMB No. 0651-0027 (exp.5/31/2002) P08/REV03		III Y	Patent and Trademark Of	
Tab settings → → → ▼ .	101986535		2.130	
To the Honorable Commissioner of Pa			original documents or copy thereo	
1. Name of conveying party(ies) PE Conveying party(ies) PE Conveying party(ies) PE Conveying PE Conveying PE 1 3 2007 PE CONVEY TRADELY PE NO		2. Name and address of r		
3. Nature of conveyance:				
☑ Assignment	Merger	Street Address: 10777	Main Street, Suite 320	
☐ Security Agreement ☐	Change of Name			
☐ Other		City: Farifax	State: VA ZIP: 22030	
Execution Date: December 14, 2001 and	February 12, 2002	Additional name(s) & addres	ss(es) attached? Yes No	
 4. Application number(s) or patent number If this document is being filed together A. Patent Application No.(s) 10/014,467 		the execution date of the a	pplication is:	
5. Name and address of party to whom concerning document should be maile	•		ations and patents involved:	
Name: Sean S. Wooden		7 T-1-15 (07 OFD 2 44	١. ٢	
Internal Address: DORSEY & WHITNEY LLP 02/19/2002 6TON11 00000150 041425 10014467		7. Total fee (37 CFR 3.41 ☑ Enclosed - Any exceptited or debited	ess or insufficiency should be	
01 FC:581 40.00 CH		Authorized to be ch	arged to deposit account	
Street Address: 1001 Pennsylvania Av	venue, N.W.	8. Deposit account number	er:	
Suite 300 South		04-1425		
City: Washington State	: <u>DC</u> ZIP: 20004	(Attach duplicate copy of the	nis page if paying by deposit account)	
	DO NOT L	ISE THIS SPACE		
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.				
Sean S. Wooden, Reg. No. 43,997 February 13, 2002				
Name of Person Signing Signature Date Total number of pages including cover sheet, attachments, and document:				
	Mail documents to be recorded with	equired cover sheet information to:		

Docket No.: 12348.00

	Assignment of Rights. Titl	e and Interest in Invention	Docket No.		
(Multiple inventors; single assignee)			12348		
This is an A	ssignment of the following right	s, title and interest: (check all that apply):			
×	United States of America right	s, tille and interest in the invention			
\boxtimes	☐ United States Patent Application Serial No. not yet assigned				
	Date of Execution: Date of Filing:				
	United States Patent No(s).				
	International (PCT) Patent Application Serial No.				
	Other (specify)				
Title of the I	invention				
OPTICAL F	FIBER AMPLIFIERS AND LASER	S AND OFTICAL PUMPING DEVICES THEREFOR	AND METHODS OF		
1					
Inventors (as	signors)				
	Name	Address			
Lew GOLD	BERG	3316 Midland Road, Fairfax, Virginia 22031	- USA		
Marc Le FL	OHIC	1 Pratt Cotell, 22300 Saint Quey Perros - Fr	ance		
Assignee					
	Name	Address			
KEOPSYS I	NC.	10777 Maint Street, Suite 320, Fairfax, VA 2	22030 - USA		
<u> </u>					

(Page 1 of)

PATENT REEL: 012580 FRAME: 0068

A503A/REV01

Assignment of Rights, Title and Interest in Invention (Multiple inventors; single assignee)

Docket No.

Whereas, we, the above-identified Inventors, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinaster referred to as "Invention");

DORSEY & WHITNEY

And, whereas we desire to assign our above-identified rights, title and interest in the Invention to the above-identified Assignee;

Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

We hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for said Invention, and in and to any and all reissues und reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any United States Letters. Patent which may issue for said Invention to said Assignee, as assignce of the whole right, title and interest thereto;

And we further agree to sign and execute all necessary and lawful future documents, including applications for fureign patents, for filing divisions, continuations and continuations-in-part of said application for patent, und/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense.

Inventors' Signatures (if Notarization is desired, do not sign here and proceed to next puge)

Name	Signature Lifette
Lew GOLDBERG	Lew 6000 12/14/01
Marc Le FLOHIC	

Page 2 of

PATENT REEL: 012580 FRAME: 0069

Assignment of Rights, Title and Interest in Invention (Multiple inventors; single assignee)

Docket No.

Whereas, we, the above-identified Inventors, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

And, whereas we desire to assign our above-identified rights, title and interest in the Invention to the above-identified Assignee;

Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

We hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries forcign thereto, which may be granted or have granted for said Invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any United States Letters
Patent which may issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;

And we further agree to sign and execute all necessary and lawful future documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesald Invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense.

Inventors' Signatures (if Notarization is desired, do not sign here and proceed to next page)

Name	Signature/Date
Lew GOLDBERG	
Marc Le FLOHIC	Feb 12, 2002
	·

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PATENT REEL: 012580 FRAME: 0070

RECORDED: 02/13/2002