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FORM PTO-1619A, Expires 06/30/99 OMB 0661-0027	1719350  U.S. Department of Commerce Patent and Trademark Office PATENT				
	Docket 19867-709				
RECORDATION FORM COVER SHEET					
TO: The Commissioner of Patents and Tradema	PATENTS ONLY  arks: Please record the attached original cocument(s) or copy(ies).				
Submission Type	Conveyance Type				
X New	X Assignment Security Agreement AY 1 1 2001				
Resubmission (Non-Recordation) Document ID#	License Change of Name				
Correction of PTO Error Reel # Frame #	Merger Other				
Corrective Document Reel # Frame #	U.S. Government (For Use ONLY by U.S. Government Agencies)  Departmental File  Secret File				
Conveying Party(ies)	Mark if additional names of conveying parties attached Execution Date				
Name (line 1) Clow, Lawrence P. J	Month Day Year				
Name (line 2)	12301999				
Second Party	Execution Date Month Day Year				
Name (line 1) Simkulet, Michelle	Conerty 12211999				
Name (line 2)					
Receiving Party	Mark if additional names of receiving parties attached				
Name (line 1) Interscience, Inc.	If document to be recorded is an essignment and the				
Name (line 2)	receiving party is not domiciled in the United States, an appointment				
Address (line 1) 105 Jordan Road	of a domestic representative is attached.				
Address (line 2)	(Designation must be a separate document from Assignment.)				
Address (line 3) Troy	New York 12180-8343				
Domestic Representative Name and A	State/Country Zip Code Address Enter for the first Receiving Party only.				
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Mail documents to be recorded with required cover sheet(s) information to: Commissioner of Patents and Trademarks, Box Assignments , Washington, D.C. 20231

> PATENT REEL: 011783 FRAME: 0744

FORM PTO-1619B Expires 06/30/99 OMB 0651-0027	Page 2	U.S. Department of Commerce Patent and Trademark Office 19867-709 PATENT
Correspondent Name and Address	Area Code and Telephone Numb	per 865/574-4180
Name James M. Spicer		
Address (line 1) UT-Battelle, LLC		
Address (line 2) P. O. Box 2008		
Address (Ine 3) Mail Stop 6498		
Address (line 4) Oak Ridge, Tenness	ee 37931-6498	
Pages Enter the total number of princluding any attachment	pages of the attached conveyance do	pocument # 7
Application Number(s) or Patent Nu Enter either the Patent Application Number or th		ark if additional numbers attached
Patent Application Number(s)  If this document is being filed together with a new Pasigned by the first named executing inventor.  Patent Cooperation Treaty (PCT)  Enter PCT application number only if a U.S. Application Number has not been assigned.  Number of Properties	etent Application, enter the date the patent app	atent Number(s)  Dication was Month Day Year  PCT  PCT
Enter the	total number of properties involved.	#
Method of Payment: En Deposit Account	nt for Properties Listed (37 CFR 3.4 closed Deposit Account X additional fees can be charged to the account.)  Deposit Account Number:  Authorization to charge additional fee	#[13-1958
Statement and Signature		
To the best of my knowledge and	belief, the foregoing information is to entire the foregoing information in the foregoing information is to entire the foregoing information in the foregoing in t	posit account are authorized, as

FORM PTO-1619C

## RECORDATION FORM COVER SHEET

U.S. Department of Commerce

Expires 06/30/99 OMB 0651-0027		PATENTS ONLY	Dpclet 19867-	Patent and Trademark Office PATENT -709
<b>Conveying Part</b>	y(ies)			
Enter additional Con		Mark if additional names	s of conveying parties attac	hed Execution Date Month Day Year
Name (line 1) C	astracane. James			12081999
Name (line 2)				Execution Date Month Day Year
Name (line 1)				
Name (line 2)				Execution Date
Name (line 1)				Month Day Year
Name (line 2)				
Receiving Party	y(ies)	Mark if ad	ditional names of receiving	parties attached
Enter additional Red		Walk II add	ultional names of receiving	parties attached
Name (line 1)				If document to be recorded is an assignment and the
Name (line 2)				receiving party is not domiciled in the United States, an appointment
Address (line 1)				of a domestic representative is attached. (Designation must be a separate
Address (line 2)				document from Assignment.)
Address (line 3)	Сіту	State/Cod	untry	lp Code
Name (line 1)				If document to be recorded is an assignment and the
Name (line 2)				receiving party is not domiciled in the United States, an appointment of a
Address (line 1)				domestic representative is attached. (Designation must be a separata document from
Address (line 2)				Assignment.)
Address (line 3)	City	State/Co	Duntry	Zip Code
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	* *	the Patent Number (DO NOT E		
	nt Application Number			lumber(s)
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## **ASSIGNMENT**

This Assignment is made Lawrence P. Clow, Jr., a citizen of the United States of America, residing in Waterford, New York; ("Assignor").

WHEREAS, Assignor has invented a new and useful invention entitled Direct-to-Direct Holography, Holographic Interferometry, and Holovision, for which an application for United States Letters Patent is made, and

WHEREAS, Assignors believe themselves to be the original inventors of the invention disclosed and claimed in said application for Letters Patent; and

WHEREAS, the parties desire to have a recordable instrument assigning the entire right, title and interest in and to said invention, said application and any Letters Patent that may be granted for said invention in the United States and throughout the world;

NOW, THEREFORE, in accordance with the obligations to assign the invention and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby sells, assigns, and transfers to Interscience, Inc. (hereinafter referred to as "Assignee"), the entire right, title, and interest in and to said invention, said application and any Letters Patent that may be granted for said invention in the United States and throughout the world, including the right to file foreign applications directly in the name of the Assignee and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties, or otherwise.

Assignor agrees that, upon request and without further compensation, but at no expense to Assignor, they and/or their legal representatives and assigns will do all lawful acts, including the execution of papers and the giving of testimony, that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing Letters Patent in the United States and throughout the world for said invention, and for perfecting, recording, or maintaining the title of

Assignee, its successors and assigns, to said invention, said application, and any Letters Patent granted for said invention in the United States and throughout the world.

Assignor represents and warrants that they have not granted and will not grant to others any rights inconsistent with the rights granted herein.

Assignor authorizes and requests the Assistant Commissioner for Patents of the United States and of all foreign countries to issue any Letters Patent granted for said invention, whether on said application or on any subsequently filed divisional, continuation, continuation-in-part or reissue application, to Assignee, its successors and assigns, as the assignee of the entire interest in said invention.

IN WITNESS WHEREOF, Assignor has executed this Assignment on the date provided below.

Full name of third inventor:

Inventor's signature:

Date:

Residence (City, County, State)

Citizenship:

Post Office Address:

Sworn to before me

Lawrence P. Clow, Jr.

12/30/99

Waterford, Saratoga, New York

United States of America

30 Mountain View Drive, Waterford, NY 12188

Bonnie Riggi

QUALIFIED IN ALBAMY CO

NO 02R15025202

Comm. Expires 3/21/00

this 30th day of December 1999

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## **ASSIGNMENT**

This Assignment is made by Michelle Conerty Simkulet, a citizen of the United States of America, residing in Cohoes, New York; ("Assignor").

WHEREAS, Assignor has invented a new and useful invention entitled Direct-to-Direct Holography, Holographic Interferometry, and Holovision, for which an application for United States Letters Patent is made, and

WHEREAS, Assignors believe themselves to be the original inventors of the invention disclosed and claimed in said application for Letters Patent; and

WHEREAS, the parties desire to have a recordable instrument assigning the entire right, title and interest in and to said invention, said application and any Letters Patent that may be granted for said invention in the United States and throughout the world;

NOW, THEREFORE, in accordance with the obligations to assign the invention and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby sells, assigns, and transfers to Interscience, Inc. (hereinafter referred to as "Assignee"), the entire right, title, and interest in and to said invention, said application and any Letters Patent that may be granted for said invention in the United States and throughout the world, including the right to file foreign applications directly in the name of the Assignee and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties, or otherwise.

Assignor agrees that, upon request and without further compensation, but at no expense to Assignor, they and/or their legal representatives and assigns will do all lawful acts, including the execution of papers and the giving of testimony, that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing Letters Patent in the United States and throughout the world for said invention, and for perfecting, recording, or maintaining the title of

Assignee, its successors and assigns, to said invention, said application, and any Letters Patent granted for said invention in the United States and throughout the world.

Assignor represents and warrants that they have not granted and will not grant to others any rights inconsistent with the rights granted herein.

Assignor authorizes and requests the Assistant Commissioner for Patents of the United States and of all foreign countries to issue any Letters Patent granted for said invention, whether on said application or on any subsequently filed divisional, continuation, continuationin-part or reissue application, to Assignee, its successors and assigns, as the assignee of the entire interest in said invention.

IN WITNESS WHEREOF, Assignor has executed this Assignment on the date provided below.

Full name of second inventor:

Inventor's signature:

Date:

Residence (City, County, State)

Citizenship:

Post Office Address:

Michelle D. Conerty Simkulet

Cohoes, Albany, New York

United States of America

402 Baker Ave., Cohoes, NY 12047

Sworn to before new his 21th day of December, 1999

His 21th day of December, 1999

Jainga T. Ruhulm (Talente)

JENNIFER V. RICHARDSON Notary Public, State of New York No. 01RI6005008 Qualified in Rensselaer County Commission Expires March 30, 20 12

## **ASSIGNMENT**

This Assignment is made by James Castracane, a citizen of the United States of America, residing in Albany, New York; ("Assignor").

WHEREAS, Assignor has invented a new and useful invention entitled Direct-to-Direct Holography, Holographic Interferometry, and Holovision, for which an application for United States Letters Patent is made, and

WHEREAS, Assignors believe themselves to be the original inventors of the invention disclosed and claimed in said application for Letters Patent; and

WHEREAS, the parties desire to have a recordable instrument assigning the entire right, title and interest in and to said invention, said application and any Letters Patent that may be granted for said invention in the United States and throughout the world;

NOW, THEREFORE, in accordance with the obligations to assign the invention and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby sells, assigns, and transfers to Interscience, Inc. (hereinafter referred to as "Assignee"), the entire right, title, and interest in and to said invention, said application and any Letters Patent that may be granted for said invention in the United States and throughout the world, including the right to file foreign applications directly in the name of the Assignee and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties, or otherwise.

Assignor agrees that, upon request and without further compensation, but at no expense to Assignor, they and/or their legal representatives and assigns will do all lawful acts, including the execution of papers and the giving of testimony, that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing Letters Patent in the United States and throughout the world for said invention, and for perfecting, recording, or maintaining the title of

Assignee, its successors and assigns, to said invention, said application, and any Letters Patent granted for said invention in the United States and throughout the world.

Assignor represents and warrants that they have not granted and will not grant to others any rights inconsistent with the rights granted herein.

Assignor authorizes and requests the Assistant Commissioner for Patents of the United States and of all foreign countries to issue any Letters Patent granted for said invention, whether on said application or on any subsequently filed divisional, continuation, continuation-in-part or reissue application, to Assignee, its successors and assigns, as the assignee of the entire interest in said invention.

IN WITNESS WHEREOF, Assignor has executed this Assignment on the date provided below.

Full name of first inventor:

Inventor's signature:

Date:

Residence (City, County, State)

Citizenship:

Post Office Address:

James Castracane

Mbany, Albany, New York

United States of America

3 Marion Ave., Albany, NY 12203

DawnMarie Helin Notary Public, N.Y. State Saratoga County Exp. 9 /ol Reg. # 4847890

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> PATENT REEL: 011783 FRAME: 0752