

MXD 6-2-99

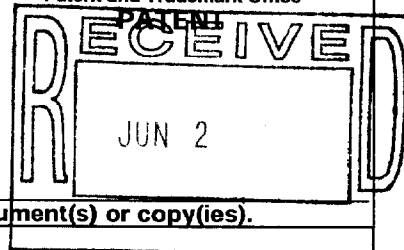
FORM PTO-1619A
Expires 06/30/99
OMB 0651-0027

06-07-1999

U.S. Department of Commerce
Patent and Trademark Office



101057874
RECORDATION FORM COVER SHEET
PATENTS ONLY



TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

New

Resubmission (Non-Recordation)
Document ID#

Correction of PTO Error
Reel # Frame #

Corrective Document
Reel # Frame #

Conveyance Type

Assignment Security Agreement

License Change of Name **4286877**

Merger Other

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

Name (line 1) Execution Date Month Day Year

Name (line 2)

Second Party

Name (line 1) Execution Date Month Day Year

Name (line 2)

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)
City State/Country Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

06/07/1999 DNGUYEN 00000099 100460 4286877

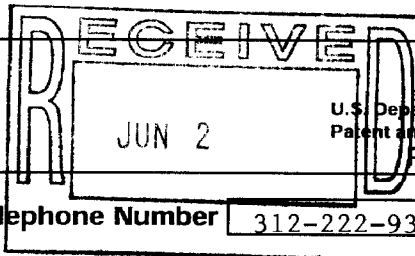
FOR OFFICE USE ONLY

1 FC:581 1080.00 CH

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

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: 009987 FRAME: 0874



Correspondent Name and Address

Area Code and Telephone Number

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

Pages Enter the total number of pages of the attached conveyance document including any attachments. #

Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="4286877"/>	<input type="text" value="4640617"/>	<input type="text" value="4784488"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="4852955"/>	<input type="text" value="5011243"/>	<input type="text" value="4843242"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="4764676"/>	<input type="text" value="4758088"/>	<input type="text" value="4773757"/>

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor. Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT PCT PCT
PCT PCT PCT

Number of Properties

Enter the total number of properties involved. #

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$

Method of Payment: Enclosed Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number: #

Authorization to charge additional fees: Yes No

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. Charges to deposit account are authorized, as indicated herein.

Stanley A. Schlitter
Name of Person Signing

Signature

6/2/99
Date

Attachment to Form PTO-1619A

Patent Numbers

4888714	4812041	4835389	4810093	4812241	5155551
5239409	5313269	4265540	4473295	4538910	4537508
4556316	4544272	4724329	4591266	4657390	Re.32912

SCHEDULE 1.1 - PATENTS

File No.	Serial No.	Filing Date	Inventor(s)	Title	Patent No.	Issue Date	Expires	Reel	Frame
LPC-01	061,010	79/07/26	Clarke, William L.	Refractively Scanned Interferometer	4,286,877	81/09/01	99/07/26	3773	0894
LPC-03	707,022	85/02/28	Hughes, Norman S. Doyle, Walter M.	Spectrometers Having Purge Retention During Sample Loading	4,640,617	87/02/03	2005/02/28	4378	0504
LPC-04	900,730	86/08/27	Doyle, Walter M. Hughes, Norman S.	Modular Radiation Transmission Apparatus for Spectrometers	4,784,488	88/11/15	2006/08/27	4606	0908
LPC-05	907,993	86/09/16	Doyle, Walter M. Hughes, Norman S.	Microscope for use in Modular FTIR Spectrometer System	4,852,955	89/08/01	2006/09/16	4605	0211
LPC-06	907,995	86/09/16	Doyle, Walter M.	Reflectance Infrared Microscope Having High Radiation Throughput	5,011,243	91/04/30	2006/09/16	4991	0438
LPC-07	921,066	86/10/20	Doyle, Walter M.	Infrared Microscope Employing a Projected Field Stop	4,843,242	89/06/27	2006/10/20	4619	0151
LPC-08	921,212	86/10/20	Doyle, Walter M.	Apparatus for Spectral Analysis of Chromatographic Fractions	4,764,676	88/08/16	2006/10/20	4619	0826
LPC-09	045,368	87/05/01	Doyle, Walter M.	Microscope Accessory Which Facilitates Radiations Transmission Measurements in the Reflectance Mode	4,758,088	88/07/19	2007/05/01	4704	0735
LPC-10	086,843	87/08/19	Doyle, Walter M.	High Resolution Spectrometer Interferometer Having an Integrated Alignment Unit	4,773,757	88/09/27	2007/08/19	4789	0056
LPC-11	085,403	87/08/14	Shafer, Kenneth H.	Sample Transfer for Infrared Analysis in Thin Layer Chromatography-Structure and Method	Abandoned	Abandoned	Abandoned	4774	0506
LPC-12	100,985	87/09/25	Dingle, Larry A.	Spectrometer System Having Interconnected Computers at Multiple Optical Heads	See LPC-17	See LPC-17	See LPC-17	4774	0506
LPC-13	161,007	88/02/26	Doyle, Walter M.	Spectrometer System Having Pivotaly Mounted Internal Reflectance Element	4,888,714	89/12/19	2007/09/25	4804	0569
LPC-14	158,214	88/02/19	Doyle, Walter M.	Internal Reflection Spectroscopy for Deep Container Immersion	4,812,041	89/03/14	2008/02/26	4893	0431
LPC-15	181,068	88/04/13	Doyle, Walter M.	On-line Spectral Analysis of Non-Opaque Sheets During Manufacture	4,835,389	89/05/30	2008/02/19	4893	0431

Abandoned See LPC-19
Abandoned See LPC-19
Abandoned See LPC-19

SCHEDULE 1.1 - PATENTS

<u>File No.</u>	<u>Serial No.</u>	<u>Filing Date</u>	<u>Inventor(s)</u>	<u>Title</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Expires</u>	<u>Reel</u>	<u>Frame</u>
LPC-16	173,562	88/03/25	Doyle, Walter M.	Versatile and Efficient Radiation Transmission Apparatus and Method for Spectrometers	4,810,093	89/03/07	2006/08/11	4898	0183
LPC-17	197,702	88/05/23	Shafer, Kenneth H.	Sample Transfer for Infrared Analysis in Thin Layer Chromatography - Structure & Method	4,812,241	89/03/14	2007/08/14	4887	0499
LPC-18	535,176	90/04/19	Doyle, Walter M. Hughes, Norman S.	Reflectance Infrared Microscope Having High Radiation Throughput	Abandoned	Abandoned	Abandoned	Abandoned	
LPC-19	538,234	90/06/13	Doyle, Walter M. & McIntosh, Bruce C.	On-line Spectral Analysis of Non-Opaque Sheets During Manufacture	Abandoned	Abandoned	Abandoned	5344	0393
LPC-20	663,592	91/03/01	Ponce; Pareja; Vidrine, W.	Three-Dimensional Refractively Scanning Interferometer Structure	Abandoned	Abandoned	Abandoned	5638	0796-7
LPC-21	663,374	91/03/01	Vidrine W., Ponce, F.	Laser Referencing System for Refractively Scanning Interferometer	5,155,551	92/10/13	2011/03/01	5638	0792-3
LPC-22	709,360	91/06/03	Doyle, Walter M. Hughes, Norman S.	Reflectance Infrared Microscope Having High Radiation Throughput	5,239,409	93/08/24	2006/09/11		
LPC-23		93/09/17	Vidrine, Warren	Contaminant Removal Inside a Sealed Housing for Infrared Light Encoding Systems	Abandoned	Abandoned	Abandoned		
ANA-01					94/04/22	94/04/22	94/04/22		
LPC-24	082,427	93/06/28	Ponce; Vidrine; Pareja	Three-Dimensional Refractively Scanning Interferometer Having Removable Optical Cartridge	5,313,269	94/05/17	2011/05/07		
ANA-02									
LPC-24	4-44595	92/03/02	Ponce; Pareja; Vidrine, W.	Three-Dimensional Refractively Scanning Interferometer Having Removable Optical Cartridge	1,999,592	95/12/08	2012/03/02		
ANA-02									
1.PC-24	92301748.7	92/02/28	Ponce; Pareja;	Three-Dimensional Refractively Scanning Interferometer Having Removable Optical Cartridge	Pending	Pending	Pending		
ANA-02	92301748.7		Vidrine, W.	Having Removable Optical Cartridge.					
WMD-01	687,240	76/05/17	Doyle, Walter M.	Film Thickness Measuring Apparatus and Method	4,129,781	78/12/12	96/05/17	4157	0431
WMD-02	754,416	76/12/27	Doyle, Walter M.	Wavelength Independent Optical Radiation Detector	Abandoned	Abandoned	Abandoned		

SCHEDULE 1.1 - PATENTS

File No.	Serial No.	Filing Date	Inventor(s)	Title	Patent No.	Issue Date	Expires	Reel	Frame
WMMD-03	790,457	77/04/25	Doyle, Walter M.	Refractively Scanned Interferometer	4,190,366	80/02/26	97/04/25	3691	0053
WMMD-04	808,951	77/06/22	Doyle, Walter M.	Refractively Scanned Interferometer	4,165,938	79/08/28	97/06/22	3646	0947
WMMD-05	830,576	77/09/06	Doyle, Walter M.	Dual Beam Fourier Spectrometer	4,183,669	80/01/15	97/09/06	3674	0281
WMMD-06	939,271	78/09/05	Doyle, Walter M.	Film Measuring Apparatus and Method	4,207,467	80/06/10	98/09/05	3713	0582
WMMD-07	080,287	79/10/01	Doyle, Walter M.	Refractively Scanned Interferometer	4,265,540	81/05/05	99/10/01	3773	0895
WMMD-08	291,402	81/08/10	Doyle, Walter M.	Parabolic Focusing Apparatus for Optical Spectroscopy	Abandoned	Abandoned	Abandoned	4157	0436
					See WMMD-15	See WMMD-15	See WMMD-15		
WMMD-09	298,067	81/08/31	Doyle, Walter M.	Parabolic Focusing Apparatus for Optical Spectroscopy	4,473,295	84/09/25	2001/09/25	4278	0672
WMMD-10	431,346	82/09/30	Doyle, Walter M.	Dual Beam Fourier Spectrometer	4,538,910	85/09/03	2002/09/30	4416	0073
WMMD-11	470,937	83/03/01	Doyle, Walter M.	Interferometer Spectrometer Having Improved Scanning Reference Point	4,537,508	85/08/27	2003/03/01	4102	0129
WMMD-12	470,936	83/03/01	Doyle, Walter M.	Interferometer Spectrometer Having Simplified Scanning Motion Control	4,556,316	81/12/03	2003/03/01	4102	0128
WMMD-13	472,013	83/03/04	Doyle, Walter M.	Alignment Apparatus and Method for Interferometer Spectrometers	4,544,272	85/10/01	2003/03/04	4104	0070
WMMD-14	539,487	83/10/06	Doyle, Walter M. Gentile, John R.	High Efficiency Radiation Source for Infrared Spectrometry	4,724,329	88/02/09	2005/02/09	4722	0933
WMMD-15	580,120	84/02/14	Doyle, Walter M.	Parabolic Focusing Apparatus for Optical Spectroscopy	4,591,266	86/05/27	2004/02/14		
WMMD-16	703,762	85/02/21	Doyle, Walter M.	Universal Spectrometer System Having Modular Sampling Chamber	4,657,390	87/04/14	2005/02/21	4388	0133
WMMD-17	895,211	86/08/11	Doyle, Walter M.	Versatile and Efficient Radiation Transmission Apparatus and Method for Spectrometers	Abandoned	Abandoned	Abandoned	4601	0079
					See LPC-16	See LPC-16	See LPC-16		
WMMD-18	042,056	87/04/24	Doyle, Walter M.	Parabolic Focusing Apparatus for Optical Spectroscopy	Re. 32,912, 4,591,266	89/04/25	2007/04/24		