

FORM PTO-1619A  
Expires 05/30/99  
OMB 0651-0027

05-09-2000

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**



101316660

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3-14-00

**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

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)

Name (line 2)

Execution Date Month Day Year

**Receiving Party**

Mark if additional names of receiving parties attached

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)     
City State/Country Zip Code

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.)

**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)

05/10/2000 DC0ATES 00000036 033325 06324855

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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 **PATENT**

REEL: 010609 FRAME: 0026

FORM PTO-1619B  
Expires 08/30/99  
OMB 0851-0027

Page 2

U.S. Department of Commerce  
Patent and Trademark Office  
PATENT

**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" value="08324855"/>	<input type="text" value="09390112"/>	<input type="text" value="09251892"/>	<input type="text" value="5036142"/>	<input type="text" value="5186865"/>	<input type="text" value="5354511"/>
<input type="text" value="08838344"/>	<input type="text" value="08842783"/>	<input type="text" value="09262223"/>	<input type="text" value="5061404"/>	<input type="text" value="5273863"/>	<input type="text" value="5359687"/>
<input type="text" value="08634997"/>	<input type="text" value="09190194"/>	<input type="text" value="09027026"/>	<input type="text" value="5176983"/>	<input type="text" value="5274179"/>	<input type="text" value="5391587"/>

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  PCT  PCT

only if a U.S. Application Number has not been assigned. 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.

*Juliana Agon* *Juliana Agon* 3/14/2000  
 Name of Person Signing Signature Date  
 Juliana Agon

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

### RECORDATION FORM COVER SHEET CONTINUATION PATENTS ONLY

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**

#### Conveying Party(ies)

Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1)	<input type="text"/>	Execution Date Month Day Year	<input type="text"/>
Name (line 2)	<input type="text"/>	Execution Date Month Day Year	<input type="text"/>
Name (line 1)	<input type="text"/>	Execution Date Month Day Year	<input type="text"/>
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Name (line 1)	<input type="text"/>	Execution Date Month Day Year	<input type="text"/>
Name (line 2)	<input type="text"/>	Execution Date Month Day Year	<input type="text"/>

#### Receiving Party(ies)

Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1)	<input type="text"/>	<input type="checkbox"/> 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)	<input type="text"/>					
Address (line 1)	<input type="text"/>					
Address (line 2)	<input type="text"/>					
Address (line 3)	<input type="text"/>	<input type="text"/>	<input type="text"/>	City	State/Country	Zip Code
Name (line 1)	<input type="text"/>	<input type="checkbox"/> 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)	<input type="text"/>					
Address (line 1)	<input type="text"/>					
Address (line 2)	<input type="text"/>					
Address (line 3)	<input type="text"/>	<input type="text"/>	<input type="text"/>	City	State/Country	Zip Code

#### 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" value="09251893"/>	<input type="text" value="60139719"/>	<input type="text"/>	<input type="text" value="5541039"/>	<input type="text" value="0035060"/>	<input type="text"/>
<input type="text" value="09263885"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="5670603"/>	<input type="text"/>	<input type="text"/>
<input type="text" value="60121259"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="5850498"/>	<input type="text"/>	<input type="text"/>
<input type="text" value="09337337"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="5974214"/>	<input type="text"/>	<input type="text"/>
<input type="text" value="60152862"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="6023545"/>	<input type="text"/>	<input type="text"/>

## PATENT RIGHTS ASSIGNMENT

This Assignment, entered into as of the 8<sup>th</sup> day of Nov, 2000, is between AlliedSignal, Inc., a Delaware corporation, having a principal place of business at 101 Columbia Road, Morristown, New Jersey 07962 (hereinafter "ASSIGNOR"); and Corning Incorporated, a New York corporation, having a principal place of business at 1 Riverfront Plaza, Corning, New York (hereinafter "ASSIGNEE").

WHEREAS, ASSIGNOR owns all right, title and interest in the attached Exhibit A of United States Patents and patent applications including any reexaminations, reissues, continuations, or divisions thereof (hereinafter the "Assigned Patents"); and

WHEREAS, ASSIGNEE desires to acquire all right, title, and interest to the Assigned Patents.

NOW, THEREFORE, the parties agree as follows:

1. ASSIGNOR, in consideration of payment by ASSIGNEE and other good and valuable consideration, the receipt and adequacy whereof is acknowledged, assigns and conveys all right, title, and interest in the Assigned Patents to ASSIGNEE including all income, royalties, damages and payments now or hereafter due or payable with respect thereto, and to all causes of action (either in law or in equity) and the right to sue, counterclaim, and recover for past, present and future infringement of the rights assigned or to be assigned under this Assignment.

2. ASSIGNEE shall file such notices or registrations with the United States Patent and Trademark Office as are necessary to perfect this Assignment. Recordation costs shall be borne by ASSIGNEE. ASSIGNOR shall sign or otherwise execute all such documents and provide necessary information for recordation.

IN WITNESS WHEREOF, the parties have executed this Assignment.

CORNING, INCORPORATED

ALLIEDSIGNAL, INC.

By: Alfred L. Michaelson

By: Roger H. Criss

Alfred L. Michaelson

Roger H. Criss

Title: Senior Vice President

Title: Assistant Secretary

Date: Mar 3 2000

Date: March 5, 2000

State of New Jersey )

County of Morris )

SS:

Before me personally appeared said Roger H. Criss

And acknowledged the foregoing instrument to be his free act and deed this 8<sup>th</sup> day of March, 2000.

Ivy L. Abraham  
(Notary Public)

IVY L. ABRAHAM  
A NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires April 1, 2001

State of New York )

County of Stauben )

SS:

Before me personally appeared said Alfred L. Michaelson  
And acknowledged the foregoing instrument to be his free act and deed this 3rd day of March  
2000.

Deanna M. Kowal

(Notary Public)

DEANNA M. KOWAL  
Notary Public in the State of New York  
Stauben County  
Reg. No. 01KO5066626  
Commission Expires 9/30/2000

APPLICATIONS

<u>APPL. NO.</u>	<u>HONEYWELL CASE NO.</u>	<u>MDC NO.</u>	<u>TITLE</u>	<u>FILING DATE</u>
08/324855	30-3266	32660082	Thermally Stable Photopolymer Composition and Light Transmissive Device	Oct. 18, 1994
08/838344 (CPA) (Parent - 08/838344 - Apr. 8, 1997)	30-4005	40050030	High Performance Acrylate Materials For Optical Interconnects	Apr. 26, 1999
08/634997	30-4116	41160030	Nitrene Compounds as Photopolymer Polymerization Inhibitors & Contrast Enhancing Additives	Apr. 19, 1996
09/390112	30-4266	42660030	Polymer Gripping Elements For Optical Fiber Splicing	Sept. 3, 1999
08/842783	30-4283	42830030	New Photocurable Halofluorinated Acrylates	Apr. 17, 1997
09/190194	30-4295	42950030	New Method For Making Novel Photocurable Halofluorinated Acrylates	Nov. 12, 1998
09/251892 (Off 60/075511 - 2/20/98 - Provisional)	30-4441	44410030	Tunable Optical Add/Drop Multiplexer	Feb. 19, 1999
09/262223 (Off 60/077345 - 3/9/98 - Provisional)	30-4445	44450030	A Waveguide Having Cladding That Exhibits An Unfilled Skin Effect	Mar. 4, 1999
09/027026	30-4449	44490030	Wavelength Division Multiplexer/Demultiplexer Designs	Feb. 20, 1998
09/251893 (Off 60/075512 - 2/20/98 - Provisional)	30-4454	44540030	Cascading of Tunable Optical Filter Elements	Feb. 19, 1999
09/263885	30-4489	44890030	Optical Waveguide Structure Including Cascaded Arrays of Tapered Waveguides	Mar. 8, 1999
60/121259	30-4558	45580030	Control of the Temperature Dependence of Planar Polymeric Waveguide Devices Through the Use of Substrate or Supstrate Layers With Specific Coefficients of Thermal Expansion	Feb. 23, 1999 (Prov)
09/337337	30-4697	46970030	Optical Devices Made From Radiation Curable Fluorinated Compositions	Jun. 21, 1999
60/152862	30-4829	48290030	Hybrid Integrated Optical Add Drop Multiplexer	Sept. 8, 1999 (Prov)
60/139719	30-4913	49130030	Fluorinated Acrylates in Making Low-Loss, Low Birefringence, and Single Mode Optical Waveguides With Exceptional Thermo-optic Properties	Jun. 18, 1999 (Prov)

**EXHIBIT A**

(Listed by U.S. Patent No. or AlliedSignal Case No. corresponding to  
U.S. Patent Application filing and includes all foreign counterparts and related cases)

**PATENTS**

<b>APPL. NO.</b>	<b>PAT. NO.</b>	<b>MDC NO.</b>	<b>TITLE</b>	<b>ISSUE DATE</b>
456419	5036142	28280082	Process For Making Electro-Optically Active Polymers	July 30, 1991
456420	5061404	28130082	Electro-Optical Materials and Light Modulator Devices Containing Same	Oct. 29, 1991
664248 (Parent)	5176983	28610082	Polymeric Nitrones Having an Acrylic Backbone Chain	Jan. 5, 1993
770373	5186865	28130082	Electro-Optical Materials and Light Modulator Devices Containing Same	Feb. 16, 1993
944383 (Div.)	5273863	28610082	Polymeric Nitrones Having an Acrylic Backbone Chain	Dec. 28, 1993
08/043318	5274179	31040082	Fluorinated Photoinitiators and Their Applications in UV Curing of Fluorinated Monomers	Dec. 28, 1993
983065	5354511	31500082	Unsymmetrically Substituted Fluorenes For Nonlinear Optical Applications	Oct. 11, 1994
08/111254	5359687	1870082	Polymer Microstructures Which Facilitate Fiber Optic To Waveguide Coupling	Oct. 25, 1994
08/054607	5391587	31040082	Fluorinated Photoinitiators and Their Applications in UV	Feb. 21, 1995
08/252873	RE35060	31040082	Curing of Fluorinated Monomers	Oct. 10, 1995
08/342399	5541039	25240030	Method For Forming Optically Active Waveguides	July 30, 1996
08/028921	5670603	32680082	Polymers Exhibiting Nonlinear Optical Properties	Sept. 23, 1996
08/838342	5850498	40210030	Low Stress Optical Waveguide Having Conformal Cladding and Fixture For Precision Optical Interconnects	Dec. 15, 1998
08/838343	5974214	39600030	Raised Rib Waveguide Ribbon For Precision Optical Interconnects	Oct. 26, 1999
09/026764	6023545	44660030	Fabrication of Diffraction Gratings For Optical Signals Devices and Optical Signal Devices Containing the Same	Feb. 8, 2000