

MAD 11/22/99

PATENT ASSIGNMENT COVER SHEET

To the Honorable Commissioner of Patents and Trademarks: Please record the attached documents or copy thereof.

(1) Conveying Party(ies): Joel P. Carberry William J. Miller
 Gang Chen Robert A. Modavis
 Peter Knowles Laura A. Weller-Brophy
 Glenn E. Kohnke

12-07-1999



101216218

Title: METHODS AND APPARATUSES FOR PACKAGING LONG-PERIOD FIBER GRATINGS

Additional name(s) of conveying party(ies) attached? Yes ☐ No ☒

(2) Receiving Party: Corning Incorporated
 Patent Department
 SP-TI-03
 Corning, NY 14831

(3) Nature of conveyance: Assignment executed: 8/25/99; 8/26/99; 8/30/99; 8/25/99; 8/31/99; 8/26/99; 11/8/99

(4) Application number(s) and/or patent number(s) against which this assignment is to be recorded:

A. Patent Application No.(s): 09/397,690
 Filing date: 9/16/99

B. Patent No.(s):
 Filing date:

If this document is being filed together with a new application, this assignment is also to be recorded against said application, executed on 8/25/99; 8/26/99; 8/30/99; 8/25/99; 8/31/99; 8/26/99; 11/8/99

(5) Name and address of party to whom correspondence concerning document should be mailed:

Name: Eric M. Smith
 Reg. No. 43,134
 Corning Incorporated
 Patent Department
 SP-TI-03
 Corning, NY 14831
 Phone No.: (607) 974-3380

(6) Total Number of applications and/or patents involved: one

(7) Total Fee = \$40.00

-- Enclosed (Check No.)

-- Included with filing fee. Check No. ____.

X Authorization given by Corning Incorporated to charge deposit account number 03-3325

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.

Eric M. Smith

Date

Total number of pages comprising cover sheet 5

12/06/1999 DNGUYEN 00000200 033325 09397690

01 FC:581

40.00 CH

PATENT
 REEL: 010414 FRAME: 0658

ASSIGNMENT

FOR VALUE RECEIVED, WE, the below name inventor(s), hereby sell, assign and transfer unto Corning Incorporated, a corporation organized and existing under the laws of the State of New York, having its principal place of business at Corning, New York, (hereinafter CORNING), as assignee, and unto its successors, assigns and legal representatives, the entire right, title and interest, for all countries, in and to certain inventions relating to a **METHODS AND APPARATUSSES FOR PACKAGING LONG-PERIOD FIBER GRATINGS**, such inventions being generally described in an application for Letters Patent of the United States executed by us on the

DATE 8/25/99

DATE 8/26/99

DATE 8/30/99

DATE 8/25/99

DATE 8/31/99

DATE 8/26/99

DATE 11/8/99

respectively, and in any future patent applications claiming the benefit of the filing date of that application, and all the rights and privileges under any and all Letters Patents that may be granted therefore.

WE request that any and all patents for said inventions be issued to CORNING, its successors, assigns and legal representatives, or to such nominees as CORNING may designate.

WE agree that, when requested, we will, without charge to CORNING and at CORNING's expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in CORNING, its successors, assigns and legal representatives or nominees.

WE authorize and empower CORNING, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for said Convention or entered as a supplement to, and to invoke and claim such right of priority without further written or oral authorization from us.

WE hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of CORNING, or its successors, assigns and legal representatives or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it or entered as a supplement to it.

WE covenant with CORNING, its successors, assigns and legal representatives or nominees, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

Signed at Corning, NY, this

8/25

1999

Joel P. Carberry
Joel P. Carberry

8/16

1999

Gang Chen
Gang Chen

8/30

1999

Peter Knowles
Peter Knowles

8/25

1999

Glenn E. Kohnke
Glenn E. Kohnke

8/31

1999

William J. Miller
William J. Miller

1/26

1999

Laura A. Weller-Brophy
Laura A. Weller-Brophy

Signed at Santa Rosa, C.A., this

11/8

1999

Robert A. Modavis
Robert A. Modavis

State of New York)

ss.

County of Steuben)

On the 25 day of Aug, 1999, before me personally came **Joel P. Carberry** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Deborah A. Hockaday
Notary Public

DEBORAH A. HOCKADAY
Notary Public, State of New York
Steuben County, Reg. # 01H05026820
Commission Expires April 30, 2000

State of New York)

ss.

County of Steuben)

On the 26 day of Aug, 1999, before me personally came **Gang Chen** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Sharon C. Archer
Notary Public

SHARON C. ARCHER
Notary Public, State of New York
Steuben County No. 01A04036431
Commission Expires April 30, 2000

State of New York)

ss.

County of Steuben)

On the 30 day of Aug, 1999, before me personally came **Peter Knowles** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Sharon C. Archer
Notary Public

SHARON C. ARCHER
Notary Public, State of New York
Steuben County No. 01A04036431
Commission Expires April 30, 2000

PATENT
REEL: 010414 FRAME: 0660

State of New York)
: ss.
County of Steuben)

On the 25 day of Aug 1999, before me personally came **Glenn E. Kohnke** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Sharon C. Archer
Notary Public

SHARON C. ARCHER
Notary Public, State of New York
Steuben County No. 01AR4636431
Commission Expires April 30, 2000

State of New York)
: ss.
County of Steuben)

On the 31 day of Aug 1999, before me personally came **William J. Miller** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Sharon C. Archer
Notary Public

SHARON C. ARCHER
Notary Public, State of New York
Steuben County No. 01AR4636431
Commission Expires April 30, 2000

State of New York)
: ss.
County of Steuben)

On the 26 day of Aug 1999, before me personally came **Laura A. Weller-Brophy** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Sharon C. Archer
Notary Public

SHARON C. ARCHER
Notary Public, State of New York
Steuben County No. 01AR4636431
Commission Expires April 30, 2000

State of California)
: ss.
County of _____)

On the _____ day of _____ 1999, before me personally came **Robert A. Modavis** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Notary Public

*SEE Attached California
NOT-PURPOSE Acknowledgment*

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of

Sonoma

} ss.

On 11/8/99

Date

before me,

Lisa Martin, Notary Public

Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared

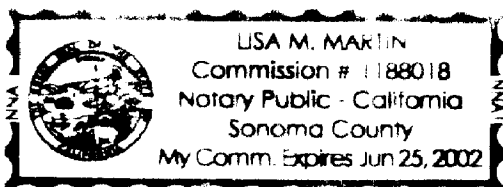
Robert A. Modavio

Name(s) of Signer(s)

personally known to me

☒ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



Place Notary Seal Above

WITNESS my hand and official seal.

Lisa Martin
Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____

Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer

Signer's Name: _____

Individual

Corporate Officer — Title(s): _____

Partner — Limited General

Attorney in Fact

Trustee

Guardian or Conservator

Other: _____

RIGHT THUMBPRINT
OF SIGNER
Top of thumb here

Signer Is Representing _____

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Joel P. Carberry
Gang Chen
Peter Knowles
Glenn E. Kohnke
William J. Miller
Robert A. Modavis
Laura A. Weller-Brophy

**COMBINED CERTIFICATE
UNDER 37 CFR 3.73(b)**

and

POWER OF ATTORNEY

Serial No.: 09/397,690
Filed: 9/16/99
For: METHODS AND APPARATUSES FOR
PACKAGING LONG-PERIOD FIBER
GRATINGS

Assistant Commissioner for Patents
Washington, DC 20231

CERTIFICATE UNDER 37 CFR 3.73(b)

CORNING INCORPORATED, a New York corporation, certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventor(s) of the patent application identified above. A true copy of the unrecorded Assignment is attached hereto.

The undersigned has reviewed the above referenced assignment of the patent application identified above and, to the best of the undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

ASSIGNMENT

FOR VALUE RECEIVED, WE, the below name inventor(s), hereby sell, assign and transfer unto Corning Incorporated, a corporation organized and existing under the laws of the State of New York, having its principal place of business at Corning, New York, (hereinafter CORNING), as assignee, and unto its successors, assigns and legal representatives, the entire right, title and interest, for all countries, in and to certain inventions relating to a **METHODS AND APPARATUSSES FOR PACKAGING LONG-PERIOD FIBER GRATINGS**, such inventions being generally described in an application for Letters Patent of the United States executed by us on the

DATE 8/25/99

DATE 8/26/99

DATE 8/30/99

DATE 8/25/99

DATE 8/31/99

DATE 8/26/99

DATE 11/8/99

respectively, and in any future patent applications claiming the benefit of the filing date of that application, and all the rights and privileges under any and all Letters Patents that may be granted therefore.

WE request that any and all patents for said inventions be issued to CORNING, its successors, assigns and legal representatives, or to such nominees as CORNING may designate.

WE agree that, when requested, we will, without charge to CORNING and at CORNING's expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in CORNING, its successors, assigns and legal representatives or nominees.

WE authorize and empower CORNING, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for said Convention or entered as a supplement to, and to invoke and claim such right of priority without further written or oral authorization from us.

WE hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of CORNING, or its successors, assigns and legal representatives or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it or entered as a supplement to it.

WE covenant with CORNING, its successors, assigns and legal representatives or nominees, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

Signed at Corning, NY, this

8/25

1999

Joel P. Carberry
Joel P. Carberry8/26

1999

Gang Chen
Gang Chen8/30

1999

Peter Knowles
Peter Knowles8/25

1999

Glenn E. Kohnke
Glenn E. Kohnke8/31

1999

William J. Miller
William J. Miller8/26

1999

Laura A. Weller-Brophy
Laura A. Weller-Brophy

Signed at Santa Rosa, C.A., this

11/8

1999

Robert A. Modavis
Robert A. Modavis

State of New York)

: ss.

County of Steuben)

On the 25 day of Aug 1999, before me personally came **Joel P. Carberry** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.Deborah A. Hockaday
Notary PublicDEBORAH A. HOCKADAY
Notary Public, State of New York
Steuben County, Reg. # 01HO026890
Commission Expires April 30, 2000

State of New York)

: ss.

County of Steuben)

On the 26 day of Aug 1999, before me personally came **Gang Chen** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.Sharon C. Archer
Notary PublicSHARON C. ARCHER
Notary Public, State of New York
Steuben County No. 01A0436431
Commission Expires April 30, 2000

State of New York)

: ss.

County of Steuben)

On the 30 day of Aug 1999, before me personally came **Peter Knowles** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.Sharon C. Archer
Notary PublicSHARON C. ARCHER
Notary Public, State of New York
Steuben County No. 01A0436431
Commission Expires April 30, 2000

State of New York)
: ss.
County of Steuben)

On the 25 day of Aug 1999, before me personally came **Glenn E. Kohnke** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Sharon C. Archer
Notary Public

SHARON C. ARCHER
Notary Public, State of New York
Steuben County No. 01AR4636431
Commission Expires April 30, 2000

State of New York)
: ss.
County of Steuben)

On the 31 day of Aug 1999, before me personally came **William J. Miller** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Sharon C. Archer
Notary Public

SHARON C. ARCHER
Notary Public, State of New York
Steuben County No. 01AR4636431
Commission Expires April 30, 2000

State of New York)
: ss.
County of Steuben)

On the 26 day of Aug 1999, before me personally came **Laura A. Weller-Brophy** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Sharon C. Archer
Notary Public

SHARON C. ARCHER
Notary Public, State of New York
Steuben County No. 01AR4636431
Commission Expires April 30, 2000

State of California)
: ss.
County of _____)

On the _____ day of _____ 1999, before me personally came **Robert A. Modavis** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Notary Public

*SEE ATTACHED California
ALL-PURPOSE Acknowledgment*

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Sanoma }

ss.

On 11/8/99
Date

before me,

Lisa Martin, Notary Public
Name and Title of Officer (e.g., "Jane Doe, Notary Public")

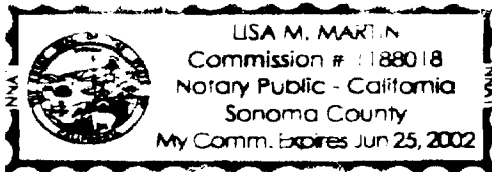
personally appeared

Robert A. Modavio
Name(s) of Signer(s)

☐ personally known to me

☒ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



Place Notar Seal Above

WITNESS my hand and official seal.

Lisa Martin
Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document _____

Document Date _____

Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer

Signer's Name: _____

Individual

Corporate Officer — Title(s): _____

Partner — Limited General

Attorney in Fact

Trustee

Guardian or Conservator

Other: _____

Signer Is Representing: _____

RIGHT THUMBPRINT
OF SIGNER

Top of thumb here

POWER OF ATTORNEY BY ASSIGNEE

CORNING INCORPORATED, the assignee of the full and exclusive right, title and interest in and to the accompanying application for United States Letters Patent entitled **METHODS AND APPARATUSES FOR PACKAGING LONG-PERIOD FIBER GRATINGS** and executed by:

INVENTOR NAME		DATE
Joel P. Carberry	on	8/25/99
Gang Chen	on	8/26/99
Peter Knowles	on	8/30/99
Glenn E. Kohnke	on	8/25/99
William J. Miller	on	8/31/99
Robert A. Modavis	on	11/8/99
Laura Weller-Brophy	on	8/26/99

appoints the following agents/attorneys to prosecute that application and to transact all business in the Patent and Trademark Office connected therewith:

Attorney/Agent Name	Registration Number
Mark W. Lauroesch	35,583
David L. Berdan	41,614
Robert L. Carlson	35,473
William J. Chervenak	38,407
William Greener	38,165
Edward F. Murphy	38,251
Philip G. Alden	32,189
Daniel P. Malley	43,443
Juliana Agon	33,468
Mary Y. Redman	29,881
Eric M. Smith	43,134


Direct all telephone calls and correspondence to:

Eric M. Smith
Corning Incorporated
SP-TI-03
Corning, NY 14831
(607) 974-3380

CORNING INCORPORATED

Date: 11/15/99

By


Alfred L. Michaelson
Sr. Vice-President and
General Patent Counsel