

08-04-1999



SHEET

101109772

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
- Execution Date  
Month Day Year  
05131999

Name (line 1) Yializis, Angelo

Name (line 2)

**Second Party**

Name (line 1) Ellwanger, Richard E.

Name (line 2)

Execution Date  
Month Day Year  
05061999

**Receiving Party**

- ☐ Mark if additional names of receiving parties attached

Name (line 1) Asten, Inc.

Name (line 2)

Address (line 1) 4399 Corporate Road

Address (line 2) P.O. Box 118001

Address (line 3) Charleston

City

SC

State/Country

29423-8001

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)

08/03/1999 DNGUYEN 00000237 09307078

FOR OFFICE USE ONLY

01 FC:581

40.00 OP

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: 010135 FRAME: 0926

## Correspondent Name and Address

Area Code and Telephone Number

(215) 568-6400

Name Anthony S. Volpe, Esquire

Address (line 1) VOLPE and KOENIG, P.C.

Address (line 2) 400 One Penn Center

Address (line 3) 1617 John F. Kennedy Blvd.

Address (line 4) Philadelphia, PA 19103

## Pages

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

# 12

## 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)

09/307,078

## Patent Number(s)

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.

# 1

## Fee Amount

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

\$40.00

Method of Payment:  
Deposit AccountEnclosed ☒Deposit Account ☐

Our Order # 1191

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

Deposit Account Number:

# 22-0493

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.

Anthony S. Volpe, Esquire

Name of Person Signing  
Reg. No. 28,377

Signature

Date

**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

Execution Date  
Month Day Year

Name (line 1) Mikhael, Michael G.

05061999

Name (line 2)

Execution Date  
Month Day Year

Name (line 1) Decker, Wolfgang

05061999

Name (line 2)

Execution Date  
Month Day Year

Name (line 1) Johnson, C. Barry

05061999

Name (line 2)

**Receiving Party(ies)**

☐ Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

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

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.)

**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)**



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

Execution Date  
Month Day Year

Name (line 1) Shipley, Gale

05061999

Name (line 2)

Execution Date  
Month Day Year

Name (line 1) O'Brien, Timothy D.

05061999

Name (line 2)

Execution Date  
Month Day Year

Name (line 1)

Name (line 2)

Receiving Party(ies)

☐ Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

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

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

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)



## ASSIGNMENT

WHEREAS, Angelo Yializis, a citizen of the United States of America, residing at 10960 North Stallard Place, Tucson, AZ 85737; Dr. Richard E. Ellwanger, a citizen of the United States of America, residing at 1801 North Saguaro Place, Tucson, AZ 85745; Dr. Michael G. Mikhael, a citizen of Egypt, residing at 3349 North Manor Drive, Tucson, AZ 85750; Dr. Wolfgang Decker, a citizen of Germany, residing at 9563 North Crestowne Drive, Tucson, AZ 85742; C. Barry Johnson, a citizen of the United States of America, residing at 1186 Waterfront Drive, Mt. Pleasant, SC 29464; Gale Shipley, a citizen of the United States of America, residing at 9 Planters Row Drive, Mauldin, SC 29662; and Timothy D. O'Brien, a citizen of the United States of America, residing at 104 Delaney Circle, Summerville, SC 29485 (hereafter jointly and severally referred to as the undersigned), are the inventors of **STRUCTURES AND COMPONENTS THEREOF HAVING A DESIRED SURFACE CHARACTERISTIC TOGETHER WITH METHODS AND APPARATUSES FOR PRODUCING THE SAME**

AND, WHEREAS, Asten Inc., a Delaware corporation, having its principal place of business at 4399 Corporate Road, P.O. Box 118001, Charleston, SC 29423-8001 (hereafter referred to as the assignee), is desirous of acquiring the entire right, title and interest in said invention, all applications for and all letters patent issued on said invention.

NOW, THEREFORE, in consideration of One Dollar (\$1.00), receipt of which is acknowledged by the undersigned, and other good and valuable consideration, the undersigned, intending to be legally bound, do hereby sell, assign and transfer to the assignee and assignee's assigns, successors and legal representatives the entire right, title and interest in said invention together with all patent applications thereon, including, but not limited to, the application for United States Letters Patent as entitled above and identified by attorney docket number ADF-2.49.1 which the undersigned executed concurrently herewith, the right to claim priority under statute, regulation, treaty or the Paris Convention and in all letters patent, including all reissues or reexaminations thereof, throughout the world.

It is agreed that the undersigned shall be legally bound, upon request of the assignee, to supply all information and evidence relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention

throughout the world for the benefit of the assignee, and to execute all instruments proper to carry out the intent of this Assignment.

The undersigned warrants that the rights and property herein conveyed are free and clear of any encumbrance.

EXECUTED under seal on this 13 day of May, 1999 at Abz.

Witness:

Samuel Sanchez

Angelo Yializis (L.S.)  
Angelo Yializis

State of Arizona

County of Pima SS.

On this 13 day of May, 1999 before me personally appeared Angelo Yializis, to me known to be one of the persons described in and who executed the foregoing instrument, and acknowledged that he executed the same knowingly and willingly and for the purposes therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

James D. [Signature]  
Notary Public

My Commission Expires:

My Commission Expires June 29, 1999

throughout the world for the benefit of the assignee, and to execute all instruments proper to carry out the intent of this Assignment.

The undersigned warrants that the rights and property herein conveyed are free and clear of any encumbrance.

EXECUTED under seal on this 6 day of May, 1999 at Az.

Witness:

Samela L. Sanchez

Richard E. Ellwanger (L.S.)  
Dr. Richard E. Ellwanger

State of Arizona

ss.

County of Pima

On this 6 day of May, 1999 before me personally appeared Richard Ellwanger, to me known to be one of the persons described in and who executed the foregoing instrument, and acknowledged that he executed the same knowingly and willingly and for the purposes therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

Floris Dizon  
Notary Public

My Commission Expires:

My Commission Expires June 29, 1999

throughout the world for the benefit of the assignee, and to execute all instruments proper to carry out the intent of this Assignment.

The undersigned warrants that the rights and property herein conveyed are free and clear of any encumbrance.

EXECUTED under seal on this 6 day of May, 1999 at Phoenix.

Witness:

Pamela L. Sanchez

Michael G. Mikhael (L.S.)  
Dr. Michael G. Mikhael

State of Arizona  
ss.

County of Pima

On this 6 day of May, 1999 before me personally appeared Michael Mikhael to me known to be one of the persons described in and who executed the foregoing instrument, and acknowledged that he executed the same knowingly and willingly and for the purposes therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

[Signature]  
Notary Public

My Commission Expires:

My Commission Expires June 29, 1999



throughout the world for the benefit of the assignee, and to execute all instruments proper to carry out the intent of this Assignment.

The undersigned warrants that the rights and property herein conveyed are free and clear of any encumbrance.

EXECUTED under seal on this 6 day of May, 1999 at Superior,

Witness:

Pamela L. Sanchez

Wolfgang Decker (L.S.)  
Dr. Wolfgang Decker

State of Arizona

ss.

County of Pima

On this 6 day of May, 1999 before me personally appeared Wolfgang Decker, to me known to be one of the persons described in and who executed the foregoing instrument, and acknowledged that he executed the same knowingly and willingly and for the purposes therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

James D. Dzonduba  
Notary Public

My Commission Expires:

My Commission Expires June 29, 1999

throughout the world for the benefit of the assignee, and to execute all instruments proper to carry out the intent of this Assignment.

The undersigned warrants that the rights and property herein conveyed are free and clear of any encumbrance.

EXECUTED under seal on this \_\_\_\_ day of \_\_\_\_\_, 1999 at \_\_\_\_\_.

Witness:

\_\_\_\_\_

C. Barry Johnson (L.S.)  
C. Barry Johnson

State of South Carolina

ss.

County of Colleton

On this 6<sup>th</sup> day of May, 1999 before me personally appeared C. Barry Johnson, to me known to be one of the persons described in and who executed the foregoing instrument, and acknowledged that he executed the same knowingly and willingly and for the purposes therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

James A. Dancette  
Notary Public

My Commission Expires:  
May 26, 2004

throughout the world for the benefit of the assignee, and to execute all instruments proper to carry out the intent of this Assignment.

The undersigned warrants that the rights and property herein conveyed are free and clear of any encumbrance.

EXECUTED under seal on this 6 day of May, 1999 at Clinton.

Witness:

Pam S. Eiskine

Gale Shipley (L.S.)  
Gale Shipley

State of South Carolina

County of <sup>ss.</sup> Laurens

On this 6 day of May, 1999 before me personally appeared Gale Shipley, to me known to be one of the persons described in and who executed the foregoing instrument, and acknowledged that she executed the same knowingly and willingly and for the purposes therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

Sandra Goin  
Notary Public

My Commission Expires:

8-18-04

throughout the world for the benefit of the assignee, and to execute all instruments proper to carry out the intent of this Assignment.

The undersigned warrants that the rights and property herein conveyed are free and clear of any encumbrance.

EXECUTED under seal on this 6<sup>th</sup> day of May, 1999 at **Pak Mail**

Witness:

*Debra J. Huger*

*Timothy D. O'Brien* (L.S.)  
Timothy D. O'Brien

State of *South Carolina*

ss.

County of *Dorchester*

On this 6<sup>th</sup> day of May, 1999 before me personally appeared *Timothy D. O'Brien*, to me known to be one of the persons described in and who executed the foregoing instrument, and acknowledged that he executed the same knowingly and willingly and for the purposes therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

*Donal P. Paine* *5-6-99*  
Notary Public

My Commission Expires My Commission Expires April 16, 2003