

FORM PTO-1619A

Expires 06/30/99  
OMB 0651-0027

12-08-1998

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**MRD  
12-8-98

RI

100917560

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 ErrorReel # Frame # ☒ Corrective Document

Reel # 7795

Frame # 0282

## 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) SEMX Corporation

Name (line 2) f/k/a Semiconductor Packaging Materials Co., Inc.

Execution Date  
Month Day Year

08011998

## Second Party

Execution Date  
Month Day Year

Name (line 1)

Name (line 2)

## Receiving Party

☐ Mark if additional names of conveying parties attached☐ 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 form Assignment.)

Name (line 1) First Union National Bank

Name (line 2) f/k/a First Union National Bank of Connecticut

Address (line 1) 300 Main Street

Address (line 2)

Address (line 3) Stamford

City

CT /USA

State/Country

06904

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)

12/07/1998 BNGUYEN 00000291 4291815

FOR OFFICE USE ONLY

01 FC:581

120.00 GP

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 Offices, 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 Practices. 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

HART1-760501

**PATENT**  
**REEL: 9614 FRAME: 0556**

## Correspondent Name and Address

Area Code and Telephone Number

860-275-8200

Name

Amy Span Wergeles, Esq.

Address (line 1)

Robinson &amp; Cole LLP

Address (line 2)

280 Trumbull Street

Address (line 3)

Hartford, CT 06103-3597

Address (line 4)

Pages

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

# 3

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)




4,291,815

4,356,047

5,413,751

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

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## Patent Cooperation Treaty (PCT)

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

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PCT 

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PCT 

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PCT 

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PCT 

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PCT 

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Number of Properties

Enter the total number of properties involved.

# 3

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41):

\$ 120.00

Method of Payment:  
Deposit AccountEnclosed ☒Deposit Account ☐

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

Deposit Account Number:

# 18-1685

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.

Amy Span Wergeles  
Name of Person Signing

Signature

December 3, 1998  
Date

**AMENDMENT TO AND RESTATEMENT OF MEMORANDUM OF  
SECURITY INTEREST IN PATENTS**

Reference is made to the Memorandum of Security Interest in Patents dated as of January 4, 1996, by Semiconductor Packaging Materials Co., Inc. (now known as SEMX Corporation) to First Union National Bank of Connecticut (now known as First Union National Bank) which was recorded by the Assignment Division, Office of Public Records of the Patent and Trademark Office, on January 24, 1996 at Reel 7795, Frame 0282. Capitalized terms shall have the meanings assigned to them in the Memorandum.

The Obligor desires to amend and restate the Memorandum as follows:


1. The name of the Obligor is SEMX Corporation.
2. The name of the Lender is First Union National Bank.
3. The third paragraph of the Memorandum is deleted and the following is substituted therefor:

Now, therefore, in accordance with the Security Agreement dated as of January 23, 1997, between the Obligor and the Lender (the "Security Agreement"), the Obligor assigns, grants and mortgages to the Lender all of the Obligor's right, title and interest in and to the United States patents, all applications therefor and all patents issuing therefrom, set forth on the attached Schedule A (the "Patents"), together with all proceeds thereof. This grant is entered into to secure the full and prompt performance and payment of the Secured Obligations of the Obligor (as defined in the Security Agreement).

4. Except as set forth herein, the terms of the Memorandum remain in full force and effect.

The undersigned has executed this Amendment as of August 1, 1998.

SEMX CORPORATION (formerly known as  
Semiconductor Packaging Materials Co., Inc.)

By   
Name: Douglas G. Sages  
Title: Executive Vice President and  
Chief Financial Officer

STATE OF NEW YORK )

ss.: Armonk

COUNTY OF WESTCHESTER )

On this 11<sup>th</sup> day of November, 1998, before me personally came Douglas G. Sages, who, being by me duly sworn, did state as follows: that he is the Executive Vice President and Chief financial Officer SEMX Corporation, that he is authorized to execute the foregoing on behalf of such corporation and that he did so by authority of the board of directors of such corporation.

*Margaret Barr*

Notary Public

My Commission Expires:

MARGARET BARR  
Notary Public, State of New York  
No. 40717  
Qualified in Westchester County  
Commission Expires 3/30/99

<b><u>Patent</u></b>	<b><u>Patent No.</u></b>	<b><u>Issue Date</u></b>
Ceramic Lid Assembly for Hermetic Sealing of a Semiconductor Chip	4,291,815	9/29/81
Lid Assembly for Hermetic Sealing of a Semiconductor Chip	4,331,253	5/25/82
Method of Making Ceramic Lid Assembly of a Semiconductor Chip	4,356,047	10/26/82
Automatic Wire De-Spooler for Wire Bonding Machines	5,318,234	6/7/94
Method for Making Heat Dissipating Elements for Micro-Electronics Devices	5,413,751	5/9/95

Schedule A

**State of Delaware**  
**Office of the Secretary of State**

PAGE 1

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THAT "SEMEX CORPORATION" IS DULY INCORPORATED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL CORPORATE EXISTENCE NOT HAVING BEEN CANCELLED OR DISSOLVED SO FAR AS THE RECORDS OF THIS OFFICE SHOW AND IS DULY AUTHORIZED TO TRANSACT BUSINESS.

THE FOLLOWING DOCUMENTS HAVE BEEN FILED:

CERTIFICATE OF INCORPORATION, FILED THE THIRTY-FIRST DAY OF OCTOBER, A.D. 1988, AT 9 O'CLOCK A.M.

CERTIFICATE OF AMENDMENT, FILED THE TWENTY-THIRD DAY OF NOVEMBER, A.D. 1988, AT 9 O'CLOCK A.M.

CERTIFICATE OF OWNERSHIP, CHANGING ITS NAME FROM "SEM ACQUISITION CORP." TO "SEMICONDUCTOR PACKAGING MATERIALS CO., INC.", FILED THE EIGHTEENTH DAY OF JANUARY, A.D. 1989, AT 10 O'CLOCK A.M.

CERTIFICATE OF AMENDMENT, FILED THE SEVENTEENTH DAY OF OCTOBER, A.D. 1991, AT 10 O'CLOCK A.M.

CERTIFICATE OF OWNERSHIP, FILED THE FOURTH DAY OF APRIL, A.D. 1994, AT 9 O'CLOCK A.M.

CERTIFICATE OF AMENDMENT, FILED THE NINETEENTH DAY OF MAY,



Edward J. Freel, Secretary of State

2176949 8310

981336853

AUTHENTICATION: 9275014

DATE: 08-27-98

**State of Delaware**  
**Office of the Secretary of State**

PAGE 2

A.D. 1994, AT 9 O'CLOCK A.M.

CERTIFICATE OF OWNERSHIP, FILED THE FIFTH DAY OF JANUARY,

A.D. 1996, AT 9 O'CLOCK A.M.

CERTIFICATE OF AMENDMENT, FILED THE THIRTIETH DAY OF APRIL,

A.D. 1997, AT 9 O'CLOCK A.M.

CERTIFICATE OF AMENDMENT, CHANGING ITS NAME FROM  
"SEMICONDUCTOR PACKAGING MATERIALS CO., INC." TO "SEMIX  
CORPORATION" FILED THE TWENTY-NINTH DAY OF APRIL, A.D. 1998, AT  
9 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE AFORESAID  
CERTIFICATES ARE THE ONLY CERTIFICATES ON RECORD OF THE  
AFORESAID CORPORATION.

AND I DO HEREBY FURTHER CERTIFY THAT THE FRANCHISE TAXES  
HAVE BEEN PAID TO DATE.

AND I DO HEREBY FURTHER CERTIFY THAT THE ANNUAL REPORTS HAVE  
BEEN FILED TO DATE.



Edward J. Freel, Secretary of State

2176949 8310

981336853

AUTHENTICATION: 9275014

DATE: 08-27-98


**CERTIFICATE OF MERGER**  
**OF**  
**FIRST UNION BANK OF CONNECTICUT**  
**WITH AND INTO**  
**FIRST UNION NATIONAL BANK**

1. This is to certify that **FIRST UNION BANK OF CONNECTICUT**, a Connecticut bank and trust company with its office and principal place of business at 300 Main Street, Stamford, Connecticut has merged with and into **FIRST UNION NATIONAL BANK**, a national bank with its main office at One First Union Center, Charlotte, North Carolina effective on July 31, 1997.
2. The name of the surviving bank is "FIRST UNION NATIONAL BANK."
3. The principal place of business and main office of the surviving bank is One First Union Center, Charlotte, North Carolina 28288.
4. This Certificate of Merger is being filed pursuant to the provisions of §47-12 of the Connecticut General Statutes.


IN WITNESS WHEREOF, the undersigned has caused these presents to be executed by its officer, duly authorized, and its corporate seal to be hereunto affixed this 6 day of August, 1997.

Signed, Sealed and Delivered  
in the presence of:

FIRST UNION NATIONAL BANK

  
Christiane De Nunzio

By  (L.S.)  
Douglas W. Fuller  
Its Senior Vice President


  
Jane E. O'Connor

STATE OF CONNECTICUT     )  
  ) SS: Stamford  
COUNTY OF FAIRFIELD     )

On this the 6 day of August, 1997, before me the undersigned officer, personally appeared Douglas W. Fuller, who acknowledged himself to be the Senior Vice President of First Union National Bank, a national bank, signer and sealer of the foregoing instrument and that he as such officer, being authorized so to do, acknowledged the execution of the same to be his free act and deed as such officer and the free act and deed of said Bank.

IN WITNESS WHEREOF, I hereunto set my hand.

MICHELE SPARAN  
NOTARY PUBLIC  
My Commission Expires November 30, 1999

  
Michele Sparan  
Notary Public  
My Commission Expires 11/30/99



**FIRST UNION NATIONAL BANK/  
FIRST UNION BANK OF CT-  
CERTIFICATES OF MERGER RECORDING INFORMATION**

Town	Ltr Rec'd	C/M Rec'd	Recording Date	Volume	Page
Andover	X	X	8/8/97	68	83
Ansonia	X	X	8/8/97	302	582
Ashford	X	X	8/8/97	111	890
Avon	X	X	8/8/97	336	265
Barkhamsted	X	X	8/8/97	101	904
Beacon Falls	X		8/8/97	103	397
Berlin	X	X	8/8/97	398	30
Bethany	X	X	8/11/97	114	1146
Bethel	X	X	8/8/97	630	481
Bethlehem	X	X	8/8/97	185	281
Bloomfield	X	X	8/8/97	741	116
Bolton	X	X	8/8/97	91	99
Bozrah	X	X	8/9/97	59	173
Branford	X	X	8/8/97	631	521
Bridgeport	X	X	8/11/97	3768	205
Bridgewater	X	X	8/8/97	46	371
Bristol	X	X	8/11/97	1223	154
Brookfield	X	X	8/11/97	323	738
Brooklyn	X	X	8/8/97	184	250
Burlington	X	X	8/8/97	165	51
Canaan	X	X	8/8/97	54	679
Canterbury	X	X	8/8/97	106	806
Canton	X	X	8/11/97	222	13
Chaplin	X	X	8/8/97	63	604
Cheshire	X	X	8/11/97	1227	314
Chester		X	8/11/97	93	87
Clinton	X	X	8/8/97	255	726
Colchester	X	X	8/8/97	438	330
Colebrook	X	X	8/8/97	59	1056
Columbia	X	X	8/8/97	113	65
Cornwall	X	X	8/11/97	84	440
Coventry	X	X	8/8/97	591	223
Cromwell	X	X	8/8/97	641	134
Danbury	X	X	8/12/97	1189	177
Darien	X	X	8/8/97	837	172
Deep River	X	X	8/8/97	146	962
Derby	X	X	8/8/97	265	257
Durham	X	X	8/8/97	154	572
Eastford	X	X	8/9/97	38	191
East Granby	X	X	8/8/97	114	294
East Haddam	X	X	8/8/97	413	146
East Hampton	X	X	8/8/97	290	728
East Hartford	X	X	8/11/97	1693	348
East Haven	X	X	8/8/97	938	157
East Lyme	X	X	8/11/97	433	410

FIRST UNION NATIONAL BANK/  
FIRST UNION BANK OF CT-  
CERTIFICATES OF MERGER RECORDING INFORMATION

Town	Ltr Rec'd	C/M Rec'd	Recording Date	Volume	Page
Easton	X	X	8/8/97	242	88
East Windsor	X	X	8/11/97	198	80
Ellington	X	X	8/8/97	233	849
Enfield	X		8/8/97	1063	31
Essex	X	X	8/8/97	187	403
Fairfield	X	X	8/11/97	1730	298
Farmington	X	X	8/8/97	545	186
Franklin	X	X	8/11/97	53	140
Glastonbury	X	X	8/8/97	1100	246
Goshen	X	X	8/11/97	115	644
Granby	X	X	8/8/97	216	998
Greenwich	X	X	8/8/97	2954	128
Griswold	X	X	8/11/97	181	779
Groton	X	X	8/11/97	648	582
Guilford	X	X	8/8/97	478	813
Haddam	X	X	8/11/97	213	378
Hamden	X	X	8/11/97	1866	163
Hampton	X	X	8/8/97	45	606
Hartford	X	X	8/8/97	3851	349
Hartland	X	X	8/11/97	81	524
Harwinton	X	X	8/8/97	147	557
Hebron	X	X	8/11/97	184	518
Kent	X	X	8/8/97	112	971
Killingly	X	X	8/8/97	688	301
Killingworth	X	X	8/8/97	143	942
Lebanon	X	X	8/8/97	171	126
Ledyard	X	X	8/11/97	271	863
Lisbon	X	X	8/11/97	82	507
Litchfield	X	X	8/11/97	237	584
Lyme	X	X	8/11/97	104	917
Madison	X	X	8/11/97	758	68
Manchester	X	X	8/8/97	1916	14
Mansfield	X	X	8/8/97	389	170
Marlborough	X	X	8/8/97	111	275
Meriden	X	X	8/11/97	2284	67
Middlebury	X	X	8/8/97	150	728
Middlefield	X	X	8/11/97	102	201
Middletown	X	X	8/8/97	Doc. 10100	
Millford	X	X	8/12/97	2233	396
Monroe	X	X	8/8/97	753	256
Montville	X	X	8/11/97	301	111
Morris	X	X	8/8/97	65	815
Naugatuck	X	X	8/8/97	449	160
New Britain	X	X	8/8/97	1254	103
New Canaan	X	X	8/12/97	475	184

**FIRST UNION NATIONAL BANK/  
FIRST UNION BANK OF CT.  
CERTIFICATES OF MERGER RECORDING INFORMATION**

Town	Ltr Rec'd	C/M Rec'd	Recording Date	Volume	Page
New Fairfield	X	X	8/12/97	273	824
New Hartford	X	X	8/8/97	170	731
New Haven		X	8/8/97	5187	80
Newington	X	X	8/8/97	1152	221
New London	X	X	8/15/97	1018	229
New Milford	X	X	8/11/97	563	576
Newtown		X	8/8/97	560	591
Norfolk	X	X	8/8/97	84	104
North Branford	X	X	8/8/97	282	481
North Canaan	X	X	8/8/97	84	158
North Haven	X	X	8/8/97	509	546
North Stonington		X	8/11/97	115	447
Norwalk	X	X	8/8/97	3383	332
Norwich	X	X	8/11/97	1330	12
Old Lyme	X	X	8/11/97	240	243
Old Saybrook	X	X	8/8/97	348	895
Orange	X	X	8/8/97	410	906
Oxford	X	X	8/11/97	198	151
Plainfield	X	X	8/11/97	244	239
Plainville	X	X	8/11/97	337	882
Plymouth	X	X	8/11/97	265	23
Pomfret	X	X	8/11/97	137	94
Portland		X	8/11/97	356	78
Preston	X	X	8/12/97	113	683
Prospect	X	X	8/8/97	293	97
Putnam	X	X	8/11/97	311	132
Redding	X	X	8/8/97	211	210
Ridgefield	X	X	8/8/97	549	1011
Rocky Hill	X	X	8/11/97	315	953
Roxbury	X	X	8/12/97	69	376
Salem	X	X	8/11/97	108	284
Salisbury	X	X	8/11/97	168	1110
Scotland	X	X	8/11/97	42	882
Seymour	X	X	8/8/97	237	477
Sharon	X	X	8/11/97	130	289
Shelton	X	X	8/11/97	1437	272
Sherman	X	X	8/12/97	82	457
Simsbury	X	X	8/11/97	474	363
Somers	X	X	8/11/97	176	86
Southbury	X	X	8/12/97	322	780
Southington	X	X	8/8/97	878	670
South Windsor	X	X	8/11/97	958	191
Sprague	X	X	8/11/97	53	984
Stafford	X	X	8/11/97	360	198
Stamford	X	X	8/12/97	4811	347

**FIRST UNION NATIONAL BANK/  
FIRST UNION BANK OF CT-  
CERTIFICATES OF MERGER RECORDING INFORMATION**

Town	Ltr Rec'd	C/M Rec'd	Recording Date	Volume	Page
Sterling	X	X	8/11/97	76	517
Stonington	X	X	8/11/97	407	441
Stratford	X	X	8/11/97	1305	235
Suffield	X		8/11/97	176	87
Thomaston	X	X	8/11/97	174	603
Thompson	X	X	8/11/97	362	349
Tolland	X	X	8/11/97	565	86
Torrington	X	X	8/11/97	658	187
Trumbull	X	X	8/8/97	932	247
Union	X	X	8/12/97	40	188
Vernon	X	X	8/11/97	1111	250
Voluntown	X	X	8/11/97	66	446
Wallingford	X	X	8/8/97	888	281
Warren	X	X	8/11/97	48	479
Washington	X	X	8/11/97	137	384
Waterbury	X	X	8/8/97	3509	186
Waterford	X	X	8/11/97	471	203
Watertown	X	X	8/8/97	861	352
Westbrook	X	X	8/11/97	184	17
West Hartford	X	X	8/8/97	2220	16
West Haven	X	X	8/11/97	1039	484
Weston	X	X	8/11/97	251	783
Westport	X	X	8/8/97	1533	304
Wethersfield	X	X	8/11/97	663	283
Willington		X	8/12/97	130	92
Wilton	X	X	8/8/97	1053	249
Winchester	X	X	8/11/97	270	550
Windham	X	X	8/11/97	520	284
Windsor	X	X	8/11/97	1125	320
Windsor Locks	X	X	8/11/97	243	743
Wolcott	X	X	8/8/97	241	585
Woodbridge		X	8/12/97	270	222
Woodbury	X	X	8/8/97	223	505
Woodstock		X	8/11/97	277	468

FIRST UNION NATIONAL BANK  
dba FIRST UNION  
FIRST UNION BANK CT  
TRADE NAME CERTIFICATES  
FILING INFORMATION

Town	CertCopy Rec'd	Filing Date	Index No.
Ansonia	X	8/8/97	
Bethel	X	8/8/97	Bk. 11, Pg. T-7
Bloomfield	X	8/11/97	Index F-76
Branford	X	8/8/97	No. 2198
Bridgeport	X	8/11/97	
Cheshire	X	8/11/97	Vol. 7, Pg. 291
Clinton	X	8/8/97	Vol. 255, Pg. 727
Danbury	X	8/12/97	T.N. #13006
Darien	X	8/8/97	
Derby	X	8/8/97	
Durham	X	8/8/97	Vol. 154, Pg. 573
East Haven	X	8/8/97	
Greenwich	X	8/8/97	
Hamden	X	8/18/97	Doc. 14913
Hartford	X	8/14/97	
Madison	X	8/19/97	Book #3; File #309
Meriden	X	8/11/97	No. 5730
Middletown	X	8/8/97	File #103
Milford	X	8/12/97	Instr. 6480
Monroe	X	8/8/97	
Naugatuck	X	8/8/97	
New Canaan	X	8/12/97	File #5989
New Haven	X	8/8/97	
Newtown	X	8/8/97	
North Branford	X	8/8/97	Index #738
North Haven	X	8/8/97	T.N. Pg. 2452
Norwalk	X	8/14/97	
Old Saybrook	X	8/8/97	BK 1785
Orange	X	8/8/97	T.N. 2137
Prospect	X	8/8/97	T.N. 34
Redding	X	8/8/97	
Ridgefield	X	8/8/97	
Seymour	X	8/8/97	T.N. Vol. 5, Pg. 85
Shelton	X	8/12/97	No. 27688
Southbury	X	8/12/97	Vol. 322, Pg. 781
Southington	X	8/8/97	No. 83-97
Stamford	X	8/12/97	File #31704
Trumbull	X	8/8/97	File #3211
Wallingford	X	8/8/97	No. 3786
Waterbury	X	8/8/97	T.N. 02805
Watertown	X	8/8/97	T.N. 8812
West Hartford	X	8/8/97	T.N. 8964
West Haven	X	8/11/97	No. 8586
Westport	X	8/8/97	No. 34854
Wilton	X	8/8/97	Fict. T.N. Vol. 1
Wolcott	X	8/8/97	No. 13852
Woodbridge	X	8/12/97	Vol. 31A, Pg. 525
Woodbury	X	8/8/97	No. 6503