

01-10-2002



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137 FWC

TO THE

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F PATENTS AND TRADEMARKS:

Please record the attached original document or copy thereof.

1. Name of conveying party (ies):

ATMI Ecosys Corporation
617 River Oaks Parkway
San Jose, CA 95134

1/7/02

2. Name and address of receiving party:

Advanced Technology Materials, Inc.
7 Commerce Drive
Danbury, Connecticut 06810

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

Additional name(s) and addresses
attached? ☐ Yes ☒ No

3. Nature of conveyance: **Document ID No. 101812176**
☒ Assignment ☒ Merger ☐ Security Agreement ☐ Change of Name
☐ OtherExecution Date: July 26, 20014. Application number(s) or patent number(s): 5,777,058

If this document is being filed together with a new application, the execution date of the
application is:

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No5. Name and address of party to whom
correspondence concerning document
should be mailed:

Oliver A. Zitzmann
Advanced Technology Materials, Inc.
7 Commerce Drive
Danbury, Connecticut 06810
Telephone: 203-794-1100

7. Total Fee (37 CFR 3.41): \$ 40.00☒ Enclosed☐ Authorized to be charged to deposit
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involved: 1 ✓8. Deposit account number:
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9. 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.*

October 29, 2001

Date

Robert A. McLauchlan, III

Reg. No. 44,924

PATENT
REEL: 012428 FRAME: 0573

ASSIGNMENT

ATMI Ecosys Corporation, having offices at 617 River Oaks Parkway, San Jose, California, 95134, is the assignee and owner of the following patent and patent applications in accordance with Assignments recorded in the assignments recorded in the assignment records of the United States Patent and Trademark Office as below identified,

Attorney Docket Number	U.S. Patent No.	Date U.S. Patent Granted	Title of U.S. Patent Application	Assignment Recorded, Reel Number/Frame Number
137FWCE	5,777,058	7/7/1998	Process for Sorption of Hazardous Waste Products from Exhaust Gas Streams	7257/0842
147 E	5,011,520	4/30/1991	Hydrodynamic Fume Scrubber	8283/0316
154E	5,676,712	10/14/1997	Flashback Protection Apparatus and Method for Suppressing Deflagration In Combustion Susceptible Gas Flow	7776/0614
159CPAE	5,914,091	6/22/1999	Point-of-Use Catalytic Oxidation Apparatus and Method for Treatment of VOC-Containing Gas Streams	8064/0555
161E	5,873,388	2/23/1999	System for Stabilization of Pressure Perturbations from Oxidation systems for Treatment of Process Gases from Semiconductor Manufacturing Operations	8030/0610
162/CIPE	5,851,293	12/22/1998	Flow-Stabilized Wet Scrubber System For Treatment Of Process Gases From Semiconductor Manufacturing Operations	8745/0367
163E	5,955,037	9/21/1999	Effluent Gas Stream Treatment System Having Utility For Oxidation Treatment Of Semiconductor Manufacturing Effluent Gases	8387/0516
167E	5,846,275	12/8/1998	Clog-Resistant Entry Structure For Introducing A Particulate Solids-Containing Fluid Stream To A Fluid Processing System	8394/0938

Attorney Docket Number	U.S. Patent No.	Date U.S. Patent Granted	Title of U.S. Patent Application	Assignment Recorded, Reel Number/Frame Number
167CIPE	5,935,283	8/10/1999	Clog-Resistant Entry Structure For Introducing A Particulate Solids-Containing And/Or Solids-Forming Gas Stream To A Gas Processing System	8984/0441
168E	5,833,888	11/10/1998	Weeping Weir Gas/Liquid Interface Structure	8390/0156
170A	4,661,056	4/28/1987	Turbulent Incineration of Combustible Materials Supplied in Low Pressure Laminar Flow	8989/0895
201CON	6,030,591	2/29/2000	Process for Removing and Recovering Halocarbons from Effluent Process Streams	9361/0694

Attorney Docket Number	U.S. Patent Application No.	Date U.S. Patent Application Filed	Title of U.S. Patent Application	Assignment Recorded, Reel Number/Frame Number
163ECON	09/400,662	9/20/1999	Effluent Gas Stream Treatment System Having Utility For Oxidation Treatment Of Semiconductor Manufacturing Effluent Gases	8387/0516
317CPA	09/086,033	11/22/1999	Apparatus And Method For Point-Of-Use Abatement Of Fluorocompounds	9221/0584

Advanced Technology Materials Inc, for the benefit of itself, its successors and assigns, all inclusively hereinafter referred to as the "Assignee", desires to acquire the entire right, title and interest in and to such inventions, such applications, all inventions disclosed in such applications identified in the above table, and any and all Letters Patents of the United States and of all other countries which may be granted for such invention or inventions, or any of them.

ATMI Ecosys Corporation, hereby conveys, assigns and transfers to the Assignee its full and entire right, title and interest in and to such inventions and such application, including all priority rights arising therefrom, all inventions disclosed in such application, and any and all Letters Patents of the United States and of all other countries, together with the right to apply for such Letters Patents which may be granted for such invention, inventions, or any of them.

By this Assignment, the Assignee has, holds and enjoys such inventions, such application, and such Letters Patents, for its own use and benefit, to the full end of the term or terms for which such Letters Patents may be granted, as fully and entirely as the same would have been held and enjoyed by ATMI Ecosys Corporation, had this assignment not been made.

On behalf of ATMI Ecosys Corporation, the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and the appropriate officers of all foreign countries to issue any and all Letters Patents which may be granted on such applications above referred to or for such inventions, or any of them, to the Assignee in accordance with the terms of this instrument.

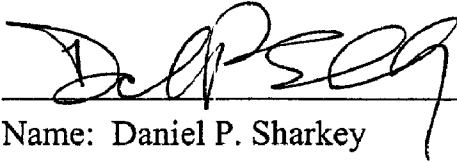
ATMI Ecosys Corporation, hereby agrees to execute and sign without further consideration any other legal documents, and any other assignments and any divisional, continuing, renewal, reissue or other applications for all patents that may be appropriate and may be deemed necessary by the Assignee to fully secure to the Assignee its interests in such inventions or any part thereof and in such patents or any of them.

ATMI Ecosys Corporation, further covenants and agrees ATMI Ecosys Corporation that will communicate to the Assignee, its successors, assigns or other legal representatives, any facts known to ATMI Ecosys Corporation relating to such invention and any patent that may be granted thereon, and will testify as to the same in any interference or litigation when requested to do so.

ATMI Ecosys Corporation hereby covenants that ATMI Ecosys Corporation has not hitherto assigned or granted any license to make, use or sell said invention, and that ATMI Ecosys Corporation will not hereafter purport to assign, license or execute any instrument to that effect in conflict with this assignment.

July 26, 2001

Date

A handwritten signature in black ink, appearing to read "D. P. Sharkey", is written over a horizontal line.

Name: Daniel P. Sharkey

Title: CFO, Treasure and Secretary