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U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

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

1. Name of conveying party(ies): Tony P. Chiang Karl F. Leeser 11/26/01 Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies) Name: Angstrom Systems, Inc. Internal Address: Street Address: 3350 Scott Boulevard #62 City: Santa Clara State: CA Zip: 95054 Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: November 21, 2001

4. Application number(s) or patent number(s): 09/994279 If this document is being filed together with a new application, the execution date of the application is: 11/26/2001 A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Bradley W. Scheer Internal Address: Street Address: 2225 East Bayshore Road, Suite 200 City: Palo Alto State: CA Zip: 94303

6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41) \$ 40.00 [X] Enclosed Authorized to be charged to deposit account 8. Deposit account number: 06-0600 (Attach duplicate copy of this page if paying by deposit account)

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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 of the original document. Bradley W. Scheer, Reg. No. 47,059 Name of Person Signing Signature Date Nov. 26 2001

Total number of pages including cover sheet, attachments, and documents: 3

Mall documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

12/29/2001 SFELEKCI 00000053 09904279 05 FC:081 00.00 UP

PATENT REEL: 012332 FRAME: 0451

Docket No. PA1688US

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned, Tony P. Chiang and Karl F. Leiser, do sell, assign, and transfer to Angstrom Systems, Inc., a corporation with offices at 3350 Scott Boulevard #62, Santa Clara, California 95054 ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, executed by us this day, entitled:

"Method for Integrated In-Situ Cleaning and Subsequent Atomic Layer Deposition Within A Single Processing Chamber"

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application; and

Agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

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Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: 11/20/2001

Name: 
Tony P. Chiang

Date: 20 Nov 01

Name: 
Karl F. Leeser