

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2580946

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| BLUE29, L.L.C. | 05/07/2007 |
| RECEIVING PARTY DATA | |
| Name: | LAM RESEARCH CORPORATION |
| Street Address: | 4650 CUSHING PARKWAY |
| City: | FREMONT |
| State/Country: | CALIFORNIA |
| Postal Code: | 94085 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14056010 |
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| <i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i> | |
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| ATTORNEY DOCKET NUMBER: | 5866-00203 |
| NAME OF SUBMITTER: | MOLLIE E. LETTANG |
| Signature: | /Mollie E. Lettang/ |
| Date: | 10/17/2013 |
| Total Attachments: 7 | |

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PATENT ASSIGNMENT

WHEREAS, **Blue29, L.L.C.** of 615 Palomar Avenue, Sunnyvale, CA 94085 a Limited Liability Corporation of the State of Delaware ("**Blue29**"), the undersigned Assignor, hereby states it is the owner of each of the patent applications and patents identified herein and on the attached Exhibit 1 and inventions disclosed therein;

WHEREAS, **Lam Research Corporation**, of 4650 Cushing Parkway, Fremont, California, 94538 United States of America, a Corporation of the State of Delaware ("**Assignee**"), is desirous of acquiring the entire right, title and interest in and to said patent applications, patents, AND inventions therefore as identified in Exhibit 1;

NOW, THEREFORE, FOR GOOD AND VALUABLE CONSIDERATION, the receipt of which is hereby acknowledged, Blue29 does hereby sell, assign and transfer to Assignee its successors and assigns, its entire right, title and interest in and to said application(s), patent(s) and/or invention(s), in any form or embodiment, including any related applications, patents and/or inventions not listed in Exhibit 1; and in and to any and all applications filed in any country based thereon, whether or not listed in Exhibit 1, including the right to file applications in countries other than the country of priority filing under the provisions of any international convention; also the entire right, title and interest in and to any and all patents, including reissues and extensions thereof, obtained in any country upon said inventions, whether or not listed in Exhibit 1; and to any and all continuing applications, including divisional, continuation and continuation-in-part applications and substitute applications; to all prior applications disclosing said inventions to which said present application(s) or patents(s) claim priority, including any not listed in Exhibit 1; and to any other applications claiming the benefit of said prior applications, including any not listed in Exhibit 1; and to any and all causes of action (whether known or unknown or whether currently pending, filed, or otherwise) and other enforcement rights under, or on account of, any of such patents and/or any item in any of the foregoing categories including, without limitation, all causes of action and other enforcement rights for damages, injunctive relief, and any other remedies of any kind for past, current, and future infringement; and all rights to collect royalties and other payments under or on account of any of the foregoing.

Blue29 hereby authorizes and requests the issuing authority to issue any and all patents on said application or applications to Assignee, as assignee of the entire interest.

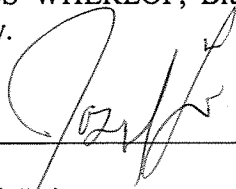
Blue29 further agrees, without any further payment by Assignee other than in reimbursement of reasonable expenses that Blue29 may incur upon the request of Assignee, its successors and assigns, to execute, to use reasonable efforts to have executed and to cooperate with Assignee to obtain necessary signatures on, any and all documents that undersigned shall be requested to execute or have executed in connection with any and all of the foregoing applications and patents and for foreign patents therefore, and to execute any and all documents required for and to cooperate in the resolution of any legal proceedings relating to the patents and patent applications, the prosecution thereof, and to

execute any and all documents necessary to vest title in applications and patents related thereto and said foreign applications and patents, and those related thereto, in Assignee, including any not listed in Exhibit 1 and relating thereto.

Assignment of Applications and Patents to Lam Research Corporation

IN WITNESS WHEREOF, Blue29 has executed this Patent Assignment as of the date written below.

Signature: _____

A handwritten signature in black ink, appearing to read 'Joseph Laia', is written over a horizontal line. The signature is stylized and cursive.

Name: Joseph Laia

Title: Chief Executive Officer

Date: May 7, 2007

Exhibit 1

| FILE NUMBER/PATENT OFFICE SERIAL NUMBER | TITLE/INVENTOR NAMES | U.S. STATUS | FOREIGN STATUS |
|--|--|--|----------------|
| (U.S. Serial No. 10/462,167) | METHODS AND A SYSTEM FOR PROCESSING A MICROELECTRONIC TOPOGRAPHY Inventors: Igor Ivanov, Weiguo Zhang | Non-provisional application filed 6/16/03. Patent Issued 4/19/05 – US 6,881,437. | |
| (Divisional Application, U.S. Serial No. 11/102,143) | METHODS AND A SYSTEM FOR PROCESSING A MICROELECTRONIC TOPOGRAPHY Inventors: Igor Ivanov, Weiguo Zhang, Artur Kolics | Divisional application filed 4/8/05. | |
| (Continuation Application, U.S. Serial No. 11/108,589) | METHODS AND A SYSTEM FOR PROCESSING A MICROELECTRONIC TOPOGRAPHY Inventors: Igor Ivanov, Weiguo Zhang, Artur Kolics | Continuation application filed 4/18/05. | |
| (U.S. Serial No. 10/462,343) | METHODS FOR MAKING AND PROCESSING DIFFUSION BARRIER LAYERS Inventors: Igor Ivanov, Weiguo Zhang, Artur Kolics | Non-provisional application filed 6/16/03. | |
| (U.S. Serial No. 10/462,180) | MICROELECTRONIC FABRICATION SYSTEM COMPONENTS AND METHOD FOR PROCESSING A WAFER USING SUCH COMPONENTS Inventors: Igor Ivanov, Weiguo Zhang | Non-provisional application filed 6/16/03. Patent Issued 3/1/05 – US 6,860,944. | |
| (Divisional Application, U.S. Serial No. 11/034,363) | MICROELECTRONIC FABRICATION SYSTEM COMPONENTS AND METHOD FOR PROCESSING A WAFER USING SUCH COMPONENTS (Divisional) Inventors: Igor Ivanov, Weiguo Zhang | Divisional application filed 1/10/05. | |
| (U.S. Serial No. 10/624,397) | MULTI-STAGED HEATING SYSTEM FOR FABRICATING MICROELECTRONICS Inventors: Igor Ivanov, Weiguo Zhang | Non-provisional application filed 7/22/03. | |
| (U.S. Serial No. 10/103,015) | APPARATUS AND METHOD FOR ELECTROLESS DEPOSITION OF MATERIALS ON SEMICONDUCTOR SUBSTRATES Inventors: Igor Ivanov, Weiguo Zhang, Artur Kolics | Non-provisional application filed 3/22/02. Patent Issued 7/5/05 – US 6,913,651. | |

| FILE NUMBER/PATENT OFFICE SERIAL NUMBER | TITLE/INVENTOR NAMES | U.S. STATUS | FOREIGN STATUS |
|--|--|--|---|
| (U.S. Serial No. 11/138,531) | APPARATUS AND METHOD FOR ELECTROLESS DEPOSITION OF MATERIALS ON SEMICONDUCTOR SUBSTRATES Inventors: Igor Ivanov, Weiguo Zhang, Artur Kolics | Divisional application filed 5/26/05. | |
| (U.S. Serial No. 10/242,331) | METHOD AND APPARATUS FOR ELECTROLESS DEPOSITION WITH TEMPERATURE-CONTROLLED CHUCK Inventors: Igor Ivanov, Weiguo Zhang, Artur Kolics | Non-provisional application filed 9/13/02 Patent Issued 1/25/05 – US 6,846,519. | |
| (Japanese Application No. 2004-536053) | METHOD AND APPARATUS FOR ELECTROLESS DEPOSITION WITH TEMPERATURE-CONTROLLED CHUCK Inventors: Igor Ivanov, Weiguo Zhang, Artur Kolics | | Japanese counterpart application filed 3/13/05. |
| (Korean Application No. 10-2005-7004388) | METHOD AND APPARATUS FOR ELECTROLESS DEPOSITION WITH TEMPERATURE-CONTROLLED CHUCK Inventors: Igor Ivanov, Weiguo Zhang, Artur Kolics | | Korean counterpart application filed 3/13/05. |
| (U.S. Serial No. 10/247,895) | TEMPERATURE-CONTROLLED SUBSTRATE HOLDER FOR PROCESSING IN FLUIDS Inventors: Igor Ivanov, Weiguo Zhang, Artur Kolics | Non-provisional application filed 9/20/02. Patent Issued 6/21/05 – US 6,908,512. | |
| (U.S. Serial No. 10/299,069) | SPATIALLY-ARRANGED CHEMICAL PROCESSING SYSTEM Inventors: Igor Ivanov, Chiu Ting, Weiguo Zhang, Artur Kolics | Non-provisional application filed 11/19/02. Patent Issued 9/6/05– US 6,939,403. | |
| (Continuation Application, U.S. Serial No. 11/217,750) | SPATIALLY-ARRANGED CHEMICAL PROCESSING SYSTEM Inventors: Igor Ivanov, Chiu Ting, Weiguo Zhang, Artur Kolics | Continuation application filed 9/1/05. | |
| (U.S. Serial No. 10/299,070) | METHOD OF ELECTROLESS DEPOSITION OF THIN METAL AND DIELECTRIC FILMS WITH TEMPERATURE CONTROLLED STAGES OF FILM GROWTH Inventor: Igor Ivanov | Non-provisional application filed 11/19/02. | |

| FILE NUMBER/PATENT OFFICE SERIAL NUMBER | TITLE/INVENTOR NAMES | U.S. STATUS | FOREIGN STATUS |
|---|--|--|----------------|
| (U.S. Serial No. 11/533,042) | METHOD OF ELECTROLESS DEPOSITION OF THIN METAL AND DIELECTRIC FILMS WITH TEMPERATURE CONTROLLED STAGES OF FILM GROWTH Inventors: Igor Ivanov | Divisional application filed 9/19/06. | |
| (U.S. Serial No. 10/339,260) | SOLUTION COMPOSITION AND METHOD FOR ELECTROLESS DEPOSITION OF COATINGS FREE OF ALKALI METALS Inventors: Artur Kolics, Nicolai Petrov, Chiu Ting, Igor Ivanov | Non-provisional application filed 1/10/03. Patent Issued 6/28/05 – US 6,911,067. | |
| (U.S. Serial No. 10/369,878) | UNIVERSAL SUBSTRATE HOLDER FOR TREATING OBJECTS IN FLUIDS Inventors: Igor Ivanov, Weiguo Zhang | Non-provisional application filed 2/21/03. Patent Issued 8/30/05 – US 6,935,638. | |
| (U.S. Serial No. 10/379,692) | ACTIVATION-FREE ELECTROLESS SOLUTION FOR DEPOSITION OF COBALT AND METHOD FOR DEPOSITION OF COBALT CAPPING/PASSIVATION LAYER ON COPPER Inventors: Artur Kolics, Nicolai Petrov, Chiu Ting, Igor Ivanov | Non-provisional application filed 3/6/03. Patent Issued 6/7/05 – US 6,902,605. | |
| (U.S. Serial No. 10/345,134) | METHOD FOR ELECTROLESS DEPOSITION OF PHOSPHORUS-CONTAINING METAL FILMS ONTO COPPER WITH PALADIUM-FREE ACTIVATION Inventors: Artur Kolics, Nicolai Petrov, Chiu Ting, Igor Ivanov | Non-provisional application filed 1/13/03 Patent Issued 9/21/04 – US 6,794,288. | |
| (U.S. Serial No. 11/199,620) | METHODS FOR FORMING A BARRIER LAYER WITH PERIODIC CONCENTRATIONS OF ELEMENTS AND STRUCTURES RESULTING THEREFROM Inventor: Igor Ivanov | Non-provisional application filed 8/9/05. | |
| (U.S. Serial No. 11/200,324) | SYSTEMS AND METHODS AFFECTING PROFILES OF SOLUTIONS DISPENSED ACROSS MICROELECTRONIC TOPOGRAPHIES DURING ELECTROLESS PLATING PROCESSES Inventor: Igor Ivanov | Non-provisional application filed 8/9/05. | |

| FILE NUMBER/PATENT OFFICE SERIAL NUMBER | TITLE/INVENTOR NAMES | U.S. STATUS | FOREIGN STATUS |
|---|--|---|----------------|
| (U.S. Serial No. 11/199,621) | BARRIER LAYER CONFIGURATIONS AND METHODS FOR PROCESSING MICROELECTRONIC TOPOGRAPHIES HAVING BARRIER LAYERS Inventor: Igor Ivanov | Non-provisional application filed 8/9/05. | |
| (U.S. Serial No. 11/199,657) | METHODS AND APPARATUS CONFIGURATIONS FOR AFFECTING MOVEMENT OF PROCESSING FLUIDS WITHIN A MICROELECTRONIC TOPOGRAPHY CHAMBER AND A METHOD FOR PASSIVATING HARDWARE WITHIN A MICROELECTRONIC TOPOGRAPHY PROCESSING CHAMBER Inventor: Igor Ivanov | Non-provisional application filed 8/9/05. | |
| (U.S. Serial No. 11/536,429) | SYSTEMS INCORPORATING MICROWAVE HEATERS WITHIN FLUID SUPPLY LINES OF SUBSTRATE PROCESSING CHAMBERS AND METHODS FOR USE OF SUCH SYSTEMS Inventors: Jason Comeille, Nancy Gilbert, Robert Tas, Steven Flanders, Timothy Franklin, Jason Wright, Stephen Jones, Joe Laia | Non-provisional application filed 9/28/06. | |
| (U.S. Serial No. 11/276,728) | NON-CORROSIVE CHEMICAL RINSE SYSTEM | Non-provisional application filed 3/11/06. | |
| (U.S. Serial No. 11/537,643) | ELECTROLESS DEPOSITION SYSTEM | Non-provisional application filed 9/30/06. | |
| (U.S. Serial No. 11/549,644) | ELECTROLESS PLATING SYSTEM | Non-provisional application filed 10/14/06. | |
| (U.S. Serial No. 11/563,199) | ELECTROLESS DEPOSITION CHEMICAL SYSTEM LIMITING STRONGLY ABSORBED SPECIES | Non-provisional application filed 11/25/06. | |
| (U.S. Serial No. 60/804,425) | SEMICONDUCTOR SYSTEM WITH SURFACE MODIFICATION | Provisional application filed 6/9/06. | |