PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2879203

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
STEVE S. HONGKHAM	04/23/2014
PAUL B. REUTER	03/24/2014
ERIC A. ENGLHARDT	05/22/2014
GANESH BALASUBRAMANIAN	05/22/2014
XINGLONG CHEN	05/07/2014
JUANCARLOS ROCHA-ALVAREZ	05/23/2014

RECEIVING PARTY DATA

Name:	APPLIED MATERIALS, INC.
Street Address:	3050 BOWERS AVENUE
City:	SANTA CLARA
State/Country:	CALIFORNIA
Postal Code:	95054

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14202763

CORRESPONDENCE DATA

Fax Number: (914)579-2201

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 914-579-2200

Email: duganemail@duganpatent.com

BRIAN M. DUGAN, DUGAN & DUGAN, PC **Correspondent Name:**

245 SAW MILL RIVER ROAD Address Line 1:

Address Line 2: **SUITE 309**

Address Line 4: HAWTHORNE, NEW YORK 10532

ATTORNEY DOCKET NUMBER:	17989/USA
NAME OF SUBMITTER:	BRIAN M. DUGAN
SIGNATURE:	/Brian M. Dugan/
DATE SIGNED:	06/02/2014

Total Attachments: 7

PATENT **REEL: 033004 FRAME: 0617**

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PATENT REEL: 033004 FRAME: 0618 Attorney Docket No: 17989/USA/FEG/SYNX/BOHN C

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

- 1. Steve S. Hongkham 3333 Middlebrook Way San Ramon, CA 94582
- 2. Paul B. Reuter 8900 Spice brush Drive Austin, TX 78759
- Eric A. Englhardt
 4168 Wallis Court
 Palo Alto, CA 94306
- 4. Ganesh Balasubramanian 43692 Ellsworth Street Fremont, CA 94539
- Xinglong Chen
 1852 Geneva Street
 San Jose, CA 95124
- JuanCarlos Rocha-Alvarez
 18 Cedar Street
 San Carlos, CA 94070

(hereinafter referred to as Assignors), have invented a certain invention entitled:

PROCESSING SYSTEMS, APPARATUS, AND METHODS ADAPTED TO PROCESS SUBSTRATES IN ELECTRONIC DEVICE MANUFACTURING

for which application for Letters Patent in the United States was filed March 10, 2014 under Serial No. 14/202,763; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as the Application), and the invention disclosed therein (hereinafter referred to as the Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as the Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

PATENT REEL: 033004 FRAME: 0619

- 1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.
- 2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.
- 3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.
- 4. Said Assignors hereby warrant and represent that they have has not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

Dated: 4/23/2014	SC 14.
	Steve S. Hongkham
Dated:	
	Paul B. Reuter
Dated:	
	Eric A. Englhardt
Dated:	Ganesh Balasubramanian
	SENTENDE LEGISLOS CONTROLISMENTO

- 1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.
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Dated:	Steve S. Hongkham
Dated: 3-24-14	Paul B. Reuter
Dated:	
Dated:	Eric A. Englhardt
	Ganesh Balasubramanian

- 1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.
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Dated:	Steve S. Hongkham
Dated:	Paul B. Reuter
Dated: 5/22/2014	Eric A. Englhardt
Dated:	Ganesh Balasubramanian

- 1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.
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Dated:	
	Steve S. Hongkham
Dated:	
	Paul B. Reuter
Dated:	
	Eric A. Englhardt
Dated: 5/22//4	Ganesh Balasubramanian
	Cancol Balasabranianian

Dated: _	05/07/2010	n chen	
	•	Xinglong Chen	
Dated: _			
		JuanCarlos Rocha-Alvarez	

Dated:			
		Xinglong Chen	
Dated:	05/23/14	Dorle	
		JuanCarlos Rocha-Alvarez	