503678124 02/03/2016

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LEONARD TEDESCHI	01/29/2016
KARTIK RAMASWAMY	01/28/2016

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:	15009705

CORRESPONDENCE DATA

Fax Number: (408)720-8383

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: 408-720-8300 Email: effei dah@bstz.com

Correspondent Name: BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP

Address Line 1: 1279 OAKMEAD PARKWAY

Address Line 4: SUNNYVALE, CALIFORNIA 94085-4040

ATTORNEY DOCKET NUMBER:	023682/USA/ETCH/CHMBR/MDD
NAME OF SUBMITTER:	ERIC S. BLANK
SIGNATURE:	/Eric S. Blank/
DATE SIGNED:	02/03/2016

Total Attachments: 4

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PATENT 503678124 REEL: 037656 FRAME: 0014

ΑS	SSIGNMENT OF PATENT APPLICATION Attorney Docket No.: 023682/USA/ETCH/CHMBR/MOD	
	For good and valuable consideration, the receipt and sufficiency of which is hereby	
	acknowledged, I/we, the undersigned, <u>Leonard Tedeschi, Kartik Ramaswamy</u>	
	hereby sell, assign, and transfer to Applied Materials, Inc.	
	a Corporation of Delaware	
	a <u>Corporation</u> of <u>Delaware</u> , (Type of Assignee: e.g., corporation, company, partnership, university, etc.)	
	having a principal place of business at 3050 Bowers Avenue, Santa Clara, California	
	95054 ,	
	("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interpretent for the United States and all foreign countries, in and to any and all inventions or improvements the are disclosed in the application (provisional or non-provisional) for the United States patent which the non-provisional application may have a declaration executed by the undersigned prior hereto concurrently herewith and which application (provisional or non-provisional) is entitled	hat ı for
	REAL TIME PROCESS CHARACTERIZATION	
	said patent application also identified as follows (when known):	
	[i/we hereby authorize an attorney or agent for said Assignee to insert below the applicat number and filing date of said patent application when known.]	ion
	United States Patent Application Numberfiled,	
	and in and to said application (provisional or non-provisional) and all provisional applications, nor provisional applications, utility applications, design applications, divisional applications, continuate applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries of any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;	ion r on s and
	agree that said Assignee may apply for and receive a patent or patents for said inventions improvements in its own name; and that, when requested, without charge to, but at the expense said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the in and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuate applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all othe patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successor assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assign representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents.	of, ntent ion r ors,

PATENT REEL: 037656 FRAME: 0015

and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

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.

Each Inventor: Please Sign and Date Below:

_____, 2016

Signature

<u>Lem 28</u>, 2016 Date Leonard Tedeschi
Printed/Typed Name

Signature

Kartik Ramaswamy

Printed/Typed Name

Assignment Document Return Address: BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 1279 Oakmead Parkway Sunnyvale, CA 94085-4040 (408) 720-8300

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Δ	SSIGNMENT OF PATENT APPLICATION Attorney Docket No.: 023682/USA/ETCH/CHMBR/MDD
	For good and valuable consideration, the receipt and sufficiency of which is hereby
	acknowledged, I/we, the undersigned, Leonard Tedeschi, Kartik Ramaswamy
	,
	hereby sell, assign, and transfer to <u>Applied Materials, Inc.</u>
	a <u>Corporation</u> of <u>Delaware</u> , (Type of Assignee: e.g., corporation, company, partnership, university, etc.)
	(Type of Assignee: e.g., corporation, company, partnership, university, etc.)
	having a principal place of business at 3050 Bowers Avenue, 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 inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which for the non-provisional application may have a declaration executed by the undersigned prior hereto or concurrently herewith and which application (provisional or non-provisional) is entitled
	REAL TIME PROCESS CHARACTERIZATION
	said patent application also identified as follows (when known):
	[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]
	United States Patent Application Numberfiled,
	and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;
	agree that said Assignee may apply for and receive a patent or patents for said inventions or 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 provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or 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 inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents

and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

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.

Each Inventor: Please Sign and Date Below:

1/29//6, 2016 Signature

Leonard Tedeschi
Printed/Typed Name

_____, 2016 _____ Date Signature

Kartik Ramaswamy
Printed/Typed Name

Assignment Document Return Address: BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 1279 Oakmead Parkway Sunnyvale, CA 94085-4040 (408) 720-8300

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