PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3705193

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RAJEEV BAJAJ	10/23/2015
DANIEL REDFIELD	10/23/2015
MAHENDRA C. ORILALL	10/21/2015
BOYI FU	10/22/2015
ANIRUDDH KHANNA	10/23/2015
JASON G. FUNG	10/21/2015
MARIO CORNEJO	10/21/2015
ASHWIN CHOCKALINGAM	10/23/2015
MAYU YAMAMURA	10/21/2015
VEERA RAGHAVA REDDY KAKIREDDY	11/10/2015
ASHAVANI KUMAR	11/04/2015
VENKATACHALAM HARIHARAN	10/22/2015
GREGORY E. MENK	10/21/2015
FRED C. REDEKER	10/22/2015
NAG B. PATIBANDLA	10/22/2015
HOU T. NG	10/22/2015
ROBERT E. DAVENPORT	10/21/2015
AMRITANSHU SINHA	10/22/2015

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:	14885950	

CORRESPONDENCE DATA

PATENT REEL: 037545 FRAME: 0757

503658559

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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.

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ATTORNEY DOCKET NUMBER:	APPM/023220US
NAME OF SUBMITTER:	JOSEPH J. STEVENS
SIGNATURE:	/Joseph J. Stevens/
DATE SIGNED:	01/21/2016

Total Attachments: 12

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Atty Dkt No.: 023220/USA/CMP/CMP/JW

1016.075601 (PATENT)

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Rajeev BAJAJ 43651 Skye Road Fremont, California 94539	2)	Daniel REDFIELD 1445 Kelly Park Circle Morgan Hill, California 95037
3)	Mahendra C. ORILALL 1700 Civic Center Dr. #602 Santa Clara, California 95050	4)	Boyi FU 1164 McKay Drive San Jose, California 95131
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11)	Ashavani KUMAR 1235 Wildwood Avenue, Apt. 23 Sunnyvale, California 94089	12)	Venkatachalam HARIHARAN 1921 Cape Horn Drive San Jose, California 95133
13)	Gregory E. MENK 1833 Greenwood Road Pleasanton, California 94566	14)	Fred C. REDEKER 1801 Sioux Drive Fremont, California 94536
15)	Nag B. PATIBANDLA 3951 Vierra Pleasanton, California 94566	16)	Hou T. NG 4068 Keith Drive Campbell, California 95008
17)	Robert E. DAVENPORT 14650 Eastview Drive Los Gatos, California 95032	18)	Amritanshu SINHA 880 E. Fremont Avenue, Apt. 107 Sunnyvale, California 94087

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

POLISHING PADS PRODUCED BY AN ADDITIVE MANUFACTURING PROCESS

for which application for Letters Patent in the United States was filed on October 16, 2015, under Serial No. 14/885,950, executed on even date herewith; 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 Application), and the invention disclosed therein (hereinafter referred to as 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 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:

- 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 conventional, 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 filling and prosecuting substitute, conventional, divisional, continuing or additional applications covering said Invention; (d) for filling 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 therefore 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 not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to

said Assignee on the dates indicated below.

1) 10-23/11 (DATE)

Rajeev BAJAJ

2) 20/23/20/5 (DATE)

Daniel REDEFELD

Mahendra C. ORIBALL

4) (DATE)

Boyi FU

Aniruddh KHANNA

6) 10-21-20/5 (DATE)

Au

Aniruddh KHANNA

7)	10.21.2015 (DATE)	Mario CORNEJO
8)	10 723.2.15 (DATE)	(.12
9)	10/21/15 (DATE)	Ashwin CHOCKALINGAM
10)	11/10 (15 (DATE)	Mayu YAMAMURA
·	·	Veera Raghava Reddy KAKIREDDY
11)	(DATE)	Ashavani KUMAR
12)	10/22/2015 (DATE)	Venkatachalam HARIHARAN
13)	10/21/15 (DATE)	Gregory E. MENK
14)	10/22/15 (DATE)	Gred (Medely Fred C. REDEKER
15)	(DATE)	Nag B. PATIBANDLA
16)	(DATE)	
17)	10/21/15 (DATE)	HOUT. NG
18)	(DATE)	Kobert E. DAVEKPORT
- /		Amritanshu SINHA

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,	,	Amritanshu SINHA

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18)	October 22,2015 (DATE)	Asinh. Amritanshu SINHA