

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JULINE SHOEB	08/31/2017
YING WU	08/31/2017
ALEX PATERSON	08/31/2017
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15693134
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<b>ATTORNEY DOCKET NUMBER:</b>	LAM2P989
<b>NAME OF SUBMITTER:</b>	NISHITKUMAR V. PATEL
<b>SIGNATURE:</b>	/Nishitkumar V. Patel/
<b>DATE SIGNED:</b>	09/01/2017
<b>Total Attachments: 1</b>	
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**ASSIGNMENT OF PATENT APPLICATION**

Whereas we, the undersigned inventors, have invented certain new and useful improvements as set forth in the patent application entitled:

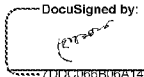
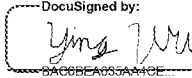
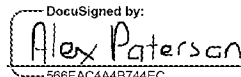
**SYSTEMS AND METHODS FOR ACHIEVING PEAK ION ENERGY ENHANCEMENT WITH A LOW ANGULAR SPREAD**

(Atty. Docket No. **LAM2P989/3920-IUS**) for which we have executed an application for a United States Letters Patent.

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we the undersigned inventors hereby:

- 1) Sell, assign and transfer to Lam Research Corporation, a Delaware corporation having a place of business at 4650 Cushing Parkway Fremont, CA 94538 U.S. (hereinafter referred to as "ASSIGNEE"), the entire right title and interest in any and all improvements and inventions disclosed in, application(s) based upon, and Patent(s) (including foreign patents) granted upon the information which is disclosed in the above referenced application.
- 2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division(s), continuation(s), substitutes(s) or reissue(s) thereof to the ASSIGNEE.
- 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative and applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
- 4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon the inventor(s), as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that we have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

Signed on the dates indicated beside our signatures.

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|----|---|-----------------|
| 1) | Signature: <br>Typed Name: Juline Shoeb  | Date: 8/31/2017 |
| 2) | Signature: <br>Typed Name: Ying Wu       | Date: 8/31/2017 |
| 3) | Signature: <br>Typed Name: Alex Paterson | Date: 8/31/2017 |