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Patent and Trademark Office

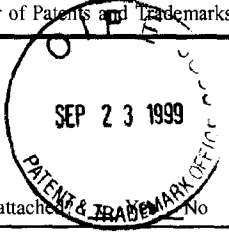
DOCKET NO.: 2328-035

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PATENTS

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereto:

<p>1. Name of conveying party(ies): John P. HOLLAND</p> <p>Additional name(s) of conveying party(ies) attached <u> </u> Yes <u> </u> No</p>	<p>2. Name and address of receiving party(ies): Name: <u>LAM RESEARCH CORPORATION</u> Internal Address: Street Address: <u>4650 Cushing Parkway</u> City: <u>Fremont</u> State/Country: <u>CA</u> ZIP: <u>94538-6516</u> Additional name(s) & address(es) attached? <u> </u> Yes <u> </u> <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <u> </u> Merger <u> </u> Security Agreement <u> </u> Change of Name <u> </u> Other</p> <p>Execution Date: <u>September 14, 1999</u></p>	



4. Application number(s) or patent number(s):

If the document is being filed together with a new application, the execution date of the application is:

<p>A. Patent Application No(s). <u>09/163,368</u></p>	<p>B. Patent No(s). Additional numbers attached? <u> </u> Yes <u> </u> <input checked="" type="checkbox"/> No</p>
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<p>5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>LOWE HAUPTMAN GOPSTEIN GILMAN & BERNER</u> Internal Address: Street Address: <u>1700 Diagonal Road, Suite 310</u> City: <u>Alexandria</u> State: <u>VA</u> ZIP: <u>22314</u></p>	<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41)..... <u>\$40.00</u> <input checked="" type="checkbox"/> Enclosed <u> </u> Authorized to be charged to deposit account</p> <p>8. Deposit account number: If necessary: <u>07-1337</u></p>
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9. Statement and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

<p>Allan M. Lowe, Reg. 19,641 Name and Registration No. of Person Signing</p>		<p>September 21, 1999 Date</p> <p>Total number of pages comprising cover sheet: <u>1</u></p>
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CMB No. 0851-0011 (exp. 4/94)

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ASSIGNMENT

WHEREAS I, JOHN P. HOLLAND of SAN JOSE, CALIFORNIA, together with ARTHUR M. HOWALD of Pleasanton, California, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled **DECHUCKING METHOD AND APPARATUS FOR WORKPIECES IN VACUUM PROCESSORS**,

for which an application for United States Letters Patent was filed on SEPTEMBER 30, 1998, and identified by United States Serial No. 09/163,368;

AND WHEREAS, LAM RESEARCH CORPORATION, a corporation of the State of DELAWARE and having an address of 4650 Cushing Parkway, Fremont, CA 94538-6516 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, We do hereby sell, assign, transfer and set over unto LAM RESEARCH CORPORATION, its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

UPON SAID CONSIDERATIONS, We hereby agree with the said assignee that We will not execute any writing or do any act whatsoever conflicting with these presents, and that We will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and assignee;

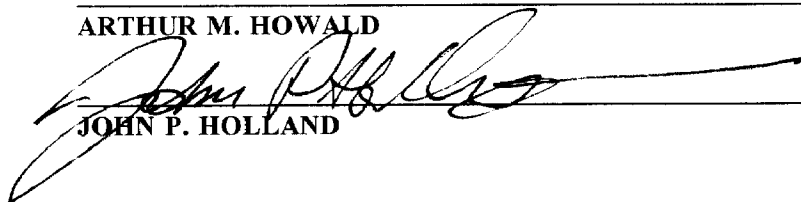
AND We request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said LAM RESEARCH CORPORATION, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

Date

14 Sept 1999

Date

ARTHUR M. HOWALD



JOHN P. HOLLAND