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To the Honorable Commissioner of Paten

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<p>1. Name of conveying party(ies): <u>Shahriar Naghshineh, Jeff Barnes, Dingying Xu</u></p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Correction of Assignment Recordation (previously recorded at Reel _____, Frame _____). <input type="checkbox"/> Other</p> <p>Execution Date: <u>3/1 May 2000</u></p>	<p>2. Name and address of receiving party(ies): Name: <u>ESC Inc.</u> Internal Address: _____ Street Address: <u>115 Research Drive</u> City: <u>Bethlehem</u> State: <u>PA</u> ZIP: <u>18015</u> Additional name(s) & address(es) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p style="text-align: right;">10032 U.S. PTO 09/587883 06/29/00</p>
<p>4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: <u>3/1 May 2000</u> A. Patent Application Number(s) _____ B. Patent Number(s) _____</p> <p>Additional number(s) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>	
<p>5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>James C. Simmons</u></p> <p>Internal Address: <u>Ratner & Prestia</u></p> <p>Street Address: <u>Suite 301, One Westlakes, Berwyn,</u> <u>P.O. Box 980</u> City: <u>Valley Forge</u> State: <u>PA</u> ZIP: <u>19482-0980</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 <input type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: <u>18-0350</u> (Attach duplicate copy of this page if paying by deposit account.)</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.

James C. Simmons

Name of Person Signing

24,842

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Signature

Date

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ASSIGNMENT

WHEREAS, we, **Shahriar Naghshineh**, of **3422 Sturbridge Place**, **Allentown, PA 18104**; **Jeff Barnes**, of **562 Carol Lane, Bath, PA 18014** and **Dingying Xu**, of **532 2nd Avenue, Bethlehem, PA 18018**, (hereinafter referred to as "ASSIGNOR") have made an invention entitled **POST CHEMICAL-MECHANICAL PLANARIZATION (CMP) CLEANING COMPOSITION**, for which, on even date herewith, the ASSIGNOR executed an application for United States Letters Patent;

WHEREAS, the ASSIGNEE, **ESC, Inc., 115 Research Drive, Bethlehem, PA 18015**, a corporation organized and existing under and by virtue of the laws of the Commonwealth/State of **Pennsylvania**, is desirous of acquiring the entire interest in and to said invention and the Letters Patent to be obtained therefor;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and of other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned, intending to be legally bound, does hereby sell, assign and transfer to the ASSIGNEE the ASSIGNOR'S entire right, title and interest, for the United States of America, its territories and possessions, and for all foreign countries, in said invention, including said patent application, all divisions and continuations thereof, all rights to claim priority based thereon, all rights to file foreign applications on said invention, and all letters patent and reissues thereof, issuing for said invention in the United States of America and in any and all foreign countries.

It is agreed that ASSIGNOR shall be legally bound, upon request and at the expense of the ASSIGNEE or its successors or assigns or a legal representative thereof, to supply all information and evidence of which the undersigned has knowledge or possession, relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments and do such other acts as may be necessary and proper to patent the invention in the United States of America and foreign countries in the name of the ASSIGNEE and to execute all instruments proper to carry out the intent of this instrument.

Because ASSIGNOR includes more than one person, these obligations shall apply to those persons both individually and collectively.

ASSIGNOR hereby warrants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

IN WITNESS WHEREOF, this Assignment is executed on the day indicated below.

ASSIGNOR #1:

Typed Name: **Shahriar Naghshineh**

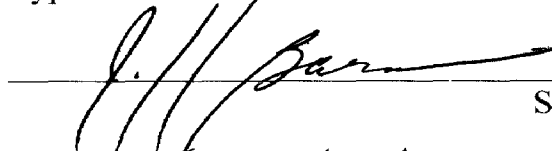

Signature

Date: 5/31/00

Witness as to ASSIGNOR #1: (Optional) _____

ASSIGNOR #2:

Typed Name: **Jeff Barnes**

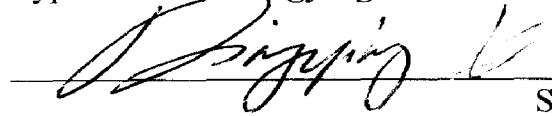

Signature

Date: 5/31/00

Witness as to ASSIGNOR #2: (Optional) _____

ASSIGNOR #3:

Typed Name: **Dingying Xu**


Signature

Date: 5/31/00

Witness as to ASSIGNOR #3: (Optional) _____