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Form PTO-1595



S. Department of Commerce

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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies):</p> <p>a) <u>Richard C. Chu</u> g) _____</p> <p>b) <u>Michael J. Ellsworth, Jr.</u> h) _____</p> <p>c) <u>Robert E. Simons</u> i) _____</p> <p>d) _____ j) _____</p> <p>e) _____ k) _____</p> <p>f) _____ l) _____</p> <p>More names attached? <u> </u> Y <u> </u> X N</p>		<p>2. Name and address of receiving party(ies):</p> <p>Name: INTERNATIONAL BUSINESS MACHINES CORPORATION</p> <p>Address: New Orchard Road Armonk, NY 10504</p> <p>More names attached? <u> </u> Y <u> </u> X N</p>	
<p>3. Nature of Conveyance: <u> </u> X Assignment</p>			
<p>4. Application number: _____ Filed: _____</p> <p>Filed with new application: <u> </u> X yes <u> </u> no</p> <p>Execution date(s):</p> <p>a) <u>August 4, 1999</u> g) _____</p> <p>b) <u>August 4, 1999</u> h) _____</p> <p>c) <u>August 4, 1999</u> i) _____</p> <p>d) _____ j) _____</p> <p>e) _____ k) _____</p> <p>f) _____ l) _____</p> <p>Additional numbers attached? <u> </u> Y <u> </u> X N</p>		<p style="text-align: right;">1539 U.S. PTO 09/368803</p> <p style="font-size: 2em; text-align: center;">09/368803</p>	
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: Lily Neff, Attorney IBM Corporation Intellectual Property Law 522 South Road, M/S P386 Poughkeepsie NY 12601-5400</p>		<p>6. Total # of applications and patents involved: <u> </u> 01</p> <p>7. Total fee (37 CFR 3.41): \$ <u> </u> 40.00</p> <p>8. Charge to Deposit Account 09-0463.</p>	
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<p>08/16/1999 NTHA11 00000355-090463 09368803</p> <p>01 FC:581 <u>Susan M. Phelps</u></p>		<p>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> <p style="text-align: center;"><u><i>Susan Phelps</i></u> Signature</p> <p style="text-align: right;"><u>08/05/99</u> Date</p>	
<p>Total number of pages including cover sheet, attachments, and document: <u> </u> 2</p>			
<p>Express Mail Label No. (if applicable): <u> </u> EJ548454551US <u> </u> Docket No.: PO9-99-078</p>			

A S S I G N M E N T

Whereas, We

Richard C. Chu of Poughkeepsie
County of Dutchess State of New York

Michael J. Ellsworth, Jr. of Lagrangeville
County of Dutchess State of New York

and

Robert E. Simons of Poughkeepsie
County of Dutchess State of New York

have invented certain improvements in

**THERMOELECTRIC COOLING ASSEMBLY WITH THERMAL SPACE TRANSFORMER INTERPOSED BETWEEN
CASCADED THERMOELECTRIC STAGES FOR IMPROVED THERMAL PERFORMANCE**

and executed a United States Patent Application therefor on

8/4/99; 8/4/99; and 8/4/99.

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York, 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, the above named, hereby sell, assign and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and the invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and I request the Commissioner of Patents to issue any Letters Patents granted upon the invention set forth in said application to IBM, its successors and assigns; and I hereby agree that IBM may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Signed

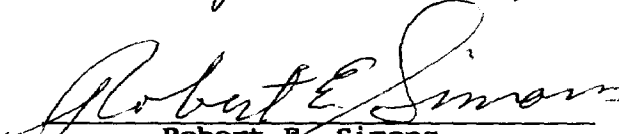
at Poughkeepsie, NY
on 8/4/99


Richard C. Chu

at Poughkeepsie, NY
on 8/4/99


Michael J. Ellsworth, Jr.

at Poughkeepsie, NY
on 8/4/99


Robert E. Simons