Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------|----------------|
| Matthew R. ARCHIBALD | 11/29/2007 |
| Richard C. CHU | 11/30/2007 |
| Hendrik F. HAMANN | 11/29/2007 |
| Madhusudan K. IYENGAR | 11/29/2007 |
| Roger R. SCHMIDT | 11/30/2007 |

RECEIVING PARTY DATA

| Name: | INTERNATIONAL BUSINESS MACHINES CORPORATION |
|-----------------|---|
| Street Address: | New Orchard Road |
| City: | Armonk |
| State/Country: | NEW YORK |
| Postal Code: | 10504 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 11950758 |

CORRESPONDENCE DATA

Fax Number: (518)452-5579

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Phone: 518-452-5600

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Correspondent Name: Kevin P. Radigan, Esq.

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Address Line 2: 5 Columbia Circle

Address Line 4: Albany, NEW YORK 12203

| ATTORNEY DOCKET NUMBER: | POU920070358US1 |
|-------------------------|------------------------|
| NAME OF SUBMITTER: | Kevin P. Radigan, Esq. |

PATENT REEL: 020199 FRAME: 0545

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Page 1 of 2

ASSIGNMENT

Whereas, we

| (1) | Matthew R. Archibald County of Wake | | of Morrisville State of North Carolina |
|-----|-------------------------------------|---------|---|
| | County of Wake | | State of North Caronna |
| (2) | Richard C. Chu | | of Hopewell Junction |
| | County of Dutchess | | State of New York |
| (3) | Hendrik F. Hamann | | of Yorktown Heights |
| | County of Westchester | | State of New York |
| (4) | Madhusudan K. Iyengar | | of Woodstock |
| | County of Ulster | | State of New York |
| | | - and - | |
| (5) | Roger R. Schmidt | | of Poughkeepsie |
| • | County of Dutchess | | State of New York |

have invented certain improvements in

APPARATUS AND METHOD FOR SIMULATING HEATED AIRFLOW EXHAUST OF AN ELECTRONICS SUBSYSTEM, ELECTRONICS RACK OR ROW OF ELECTRONICS RACKS

and executed a United States Patent Application therefor on

| (1)29 NOVEMBER, 2007, (2) | , (3) | , (4) | , and |
|---------------------------|-------|-------|-------|
| (5) | | | |

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at New Orchard Road, 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 therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, 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 in all foreign countries, and all rights of priority resulting from the filing of said United States application, and we 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 we hereby agree that IBM may apply for foreign Letters Patents on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

IBM Docket No.: POU920070358US1 Page 2 of 2

| signe | a | | |
|-------|---|---------------|-----------------------|
| 1) | at MORRISVILLE, NORTH on 29 NOVEMBER, 2007 | CAROLINA - | Matthew R. Archibald |
| 2) | aton | <u>.</u> | Richard C. Chu |
| 3) | aton | - | Hendrik F. Hamann |
| 4) | aton | | Madhusudan K. Iyengar |
| 5) | aton | | Roger R. Schmidt |

IBM Docket No.: POU920070358US1

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State of New York

ASSIGNMENT

Whereas, we

(1) Matthew R. Archibald of Morrisville County of Wake State of North Carolina (2) Richard C. Chu of Hopewell Junction State of New York County of Dutchess (3) Hendrik F. Hamann of Yorktown Heights County of Westchester State of New York (4) Madhusudan K. Iyengar of Woodstock State of New York County of Ulster - and of Poughkeepsie (5) Roger R. Schmidt

have invented certain improvements in

County of Dutchess

and executed a United States Patent Application therefor on

APPARATUS AND METHOD FOR SIMULATING HEATED AIRFLOW EXHAUST OF AN ELECTRONICS SUBSYSTEM, ELECTRONICS RACK OR ROW OF ELECTRONICS RACKS

| (1), (2) | 11/30/67 | , (3) | , and |
|---------------|----------|-------|-----------|
| (5) 1//30/0). | | | |

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Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, 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 we 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 we hereby agree that IBM may apply for foreign Letters Patents on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

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| Signo | ed | |
|-------|-----------------------------------|---------------------------------|
| (1) | at on | Matthew R. Archibald |
| (2) | at /20mpA Keeps re on ///30/07 | Richard C. Chu |
| (3) | aton | Hendrik F. Hamann |
| (4) | at on | Madhusudan K. Iyengar |
| (5) | at bunkerphi on 11/39/07 | Mary A libralt Roger R. Schmidt |

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Page 1 of 2

ASSIGNMENT

Whereas, we

(1) Matthew R. Archibald of Morrisville State of North Carolina County of Wake of Hopewell Junction (2) Richard C. Chu State of New York County of Dutchess of Yorktown Heights (3) Hendrik F. Hamann County of Westchester State of New York (4) Madhusudan K. Iyengar of Woodstock County of Ulster State of New York - and -(5) Roger R. Schmidt of Poughkeepsie State of New York County of Dutchess

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and executed a United States Patent Application therefor on

APPARATUS AND METHOD FOR SIMULATING HEATED AIRFLOW EXHAUST OF AN ELECTRONICS SUBSYSTEM, ELECTRONICS RACK OR ROW OF ELECTRONICS RACKS

| | • . | • | . * | |
|-----|-------|-----------------------|-------|-------|
| (1) | , (2) | <u>(3) 11-29-2007</u> | , (4) | , and |
| (5) | | | | |

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Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, 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 in all foreign countries, and all rights of priority resulting from the filing of said United States application, and we 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 we hereby agree that IBM may apply for foreign Letters Patents on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

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| aton | Matthew R. Archibald |
|--------------------------------------|-----------------------|
| aton | Richard C. Chu |
| at YORKTOWN HIGHTS, NY on 11-29-2007 | Jeudrik F. Hamann |
| at | Madhusudan K. Iyengar |

Signed

IBM Docket No.: POU920070358US1 Page 1 of 2

ASSIGNMENT

Whereas, we

| (1) | Matthew R. Archibald County of Wake | | of Morrisville State of North Carolina |
|-----|--|---------|---|
| (2) | Richard C. Chu County of Dutchess | | of Hopewell Junction State of New York |
| (3) | Hendrik F. Hamann County of Westchester | | of Yorktown Heights State of New York |
| (4) | Madhusudan K. Iyengar County of Ulster | | of Woodstock State of New York |
| | | - and - | |
| (5) | Roger R. Schmidt County of Dutchess | | of Poughkeepsie State of New York |

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| and executed a United States Patent Application therefor on | | | | | |
|---|--------------------------|--|--|--|--|
| (1) | , (4) [1 (29) 2007 , and | | | | |
| (5)· | | | | | |

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IBM Docket No.: POU920070358US1 Page 2 of 2

| Signe | d | |
|-------|---|-----------------------|
| (1) | aton | Matthew R. Archibald |
| (2) | aton | Richard C. Chu |
| (3) | aton | Hendrik F. Hamann |
| (4) | at WELL INGRON, ZEAGND on_11/29/2007 | Madhusudan K. Iyengar |
| (5) | at | Roger R. Schmidt |

RECORDED: 12/05/2007