

10-22-1999

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U.S. Department of Commerce

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PATENTS ONLY

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

10/12/99
09/15/99
U.S. PTO
10525

1. Name of conveying party(ies):

a) Sukhvinder Kang g) _____
 b) Howard V. Mahaney, Jr. h) _____
 c) Roger R. Schmidt i) _____
 d) Prabjit Singh j) _____
 e) _____ k) _____
 f) _____ l) _____

More names attached? Y X N

2. Name and address of receiving party(ies):

Name: INTERNATIONAL BUSINESS
 MACHINES CORPORATION
 Address: New Orchard Road
 Armonk, NY 10504

More names attached? Y X N3. Nature of Conveyance: X Assignment

4. Application number:

Filed:

Filed with new application: X yes no

Execution date(s):

a) 10 7 99 g) _____
 b) 10 8 99 h) _____
 c) 10 11 99 i) _____
 d) 10 1 99 j) _____
 e) _____ k) _____
 f) _____ l) _____

Additional numbers attached? Y X N

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Floyd A. Gonzalez
 IBM Corporation
 Intellectual Property Law
 522 South Road, M/S P386
 Poughkeepsie NY 12601-5400

6. Total # of applications and patents involved: 017. Total fee (37 CFR 3.41):
\$ 40.00.8. Charge to Deposit Account,
09-0463. A duplicate copy
is enclosed.

DO NOT USE THIS SPACE

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.

Susan L. Nelson

Signature

Date

10/12/99

Total number of pages including cover sheet, attachments, and document: 4

10/21/1999 DNGUYEN 00000238 090463 09415740

01 FC:581 40.00 CH

Express Mail Label No. (if applicable): EJ896405783US

Docket No.: PO9-99-087

PATENT
 REEL: 010318 FRAME: 0575

A S S I G N M E N T

Whereas, we

- | | | |
|--|------------------------|--|
| (1) Sukhvinder Kang | of Rochester | |
| County of Oldsted | and State of Minnesota | |
| | | |
| (2) Howard Victor Mahaney, Jr. of Cedar Park | | |
| County of Williamson | and State of Texas | |
| | | |
| (3) Roger R. Schmidt | of Poughkeepsie | |
| County of Dutchess | and State of New York | |
| And | | |
| (4) Prabjit Singh | of Poughkeepsie | |
| County of Dutchess | and State of New York | |

have invented certain improvements in HEATED PCB INTERCONNECT FOR COOLED IC CHIP MODULES

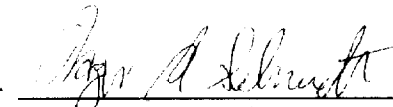
and executed a United States Patent Application therefor on

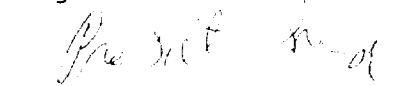
- (1) _____, (2) _____
 (3) 10/11/99, and (4) 10/11/99

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, 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 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

- | | | |
|-----|---|---|
| (1) | at _____
on _____ | _____
Sukhvinder Kang |
| (2) | at _____
on _____ | _____
Howard Victor Mahaney, Jr. |
| (3) | at Poughkeepsie, NY
on <u>10/11/99</u> | 

Roger R. Schmidt |
| (4) | at Poughkeepsie, NY
on <u>10/11/99</u> | 

Prabjit Singh |

IBM Docket No: PO9-99-087

A S S I G N M E N T

Whereas, we

- (1) Sukhvinder Kang of Rochester
County of Olmsted and State of Minnesota
- (2) Howard Victor Mahaney, Jr. of Cedar Park
County of Williamson and State of Texas
- (3) Roger R. Schmidt of Poughkeepsie
County of Dutchess and State New York
- (4) Prabjit Singh of Poughkeepsie
County of Dutchess and State of New York

have invented certain improvements in HEATED PCB INTERCONNECT FOR COOLED IC
CHIP MODULES

and executed a United States Patent Application therefor on

- (1) _____, (2) 10/8/99 (3) _____
- (4) _____

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, 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 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

- (1) at _____
on _____ Sukhvinder Kang
- (2) at Austin TX
on 10/8/99 Howard Victor Mahaney Jr.
Howard Victor Mahaney, Jr.
- (3) at Poughkeepsie, NY
on _____ Roger R. Schmidt
- (4) at Poughkeepsie, NY
on _____ Prabjit Singh

IBM Docket No: 909-99-087

A S S I G N M E N T

Whereas, we

- (1) Sukhvinder Kang of Rochester
County of Olmsted and State of Minnesota
- (2) Howard Victor Mahaney, Jr. of Cedar Park
County of Williamson and State of Texas
- (3) Roger R. Schmidt of Poughkeepsie
County of Dutchess and State New York
- (4) Prabjit Singh of Poughkeepsie
County of Dutchess and State of New York

have invented certain improvements in HEATED PCB INTERCONNECT FOR COOLED IC
CHIP MODULES

and executed a United States Patent Application therefor on

- (1) 10/7/99, (2) _____ (3) _____
(4) _____

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, 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 or
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 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

- | | | | |
|-----|----|------------------|----------------------------------|
| (1) | at | Rochester, MN | <u>At Kang. Sukhvinder Kang.</u> |
| | on | <u>10/7/99</u> | Sukhvinder Kang |
| (2) | at | _____ | _____ |
| | on | _____ | Howard Victor Mahaney, Jr. |
| (3) | at | Poughkeepsie, NY | _____ |
| | on | _____ | Roger R. Schmidt |
| (4) | at | Poughkeepsie, NY | _____ |
| | on | _____ | Prabjit Singh |