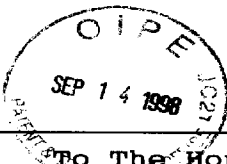


09-21-1998

Atty. Docket No. YO998-139

SHEET

100833885



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

1. Name of conveying party(ies):

MILIND W. DAWANDE, JAYANT R.
KALAGNANAM, HO SOO LEE, MARK E.
TRUMBO

Additional name(s) of conveying
party(ies) attached? Yes x No

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

Name: IBM Corporation
Address: Old Orchard Road
Armonk, NY 10504

Additional name(s) & addresses
attached? Yes x No

3. Nature of conveyance:

X Assignment

Execution Date(s): August 4, 1998,
August 11, 1998

4. Patent Application number(s)

09/129,825

Execution Date(s): August 4, 1998,
August 11, 1998

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

Name: Stephen C. Kaufman
Address: IBM Corporation
Intellectual Property Law
P.O. Box 218
Yorktown Heights, NY 10598

6. Total number of applications involved: 1

7. Total fee (37 CFR 3.41): \$40.00

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To the best of my knowledge and belief, the foregoing information is true
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Stephen C. Kaufman

September 10, 1998

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Date

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09/17/1998 LSNEED 00000046 090468 09129825
02 FC:581 40.00 CH

PATENT
REEL: 9456 FRAME: 0746

Assignment

Whereas, we

Inventor
and City

(1) Milind W. Dawande
County of Westchester

of Peekskill
and State of New York

and (2) Jayant R. Kalagnanam
County of Westchester

of Tarrytown
and State of New York

and (3) Ho Soo Lee
County of Westchester

of Mount Kisco
and State of New York

and (4) Mark E. Trumbo
County of Westchester

of Pleasantville
and State of New York

have invented certain improvements in

TITLE

AN EFFICIENT METHOD FOR DESIGNING MANUFACTURING UNITS FOR PRODUCTION FROM
AN ORDER BOOK

DATES THAT INVENTORS SIGNED THE DECLARATION and executed, respectively, a United States patent application therefor on
(1) August 4, 1998, and (2) August 4, 1998, and (3) August 11, 1998, and
(4) August 11, 1998.

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 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 Patent granted upon the inventions set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent 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.

CITY Signed and sealed
DATE (1) at Yorktown Heights, N.Y. MWDawande SIGNATURE
on August 4, 1998, (Milind W. Dawande) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME


CITY Signed and sealed
DATE and (2) at Yorktown Heights, N.Y. JRKalagnanam SIGNATURE
on August 4, 1998, (Jayant R. Kalagnanam) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

CITY Signed and sealed
DATE and (3) at Yorktown Heights, N.Y. HSLee SIGNATURE
on August 11, 1998, (Ho Soo Lee) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

CITY Signed and sealed
DATE and (4) at Yorktown Heights, N.Y. METrumbo SIGNATURE
on August 11, 1998, (Mark E. Trumbo) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

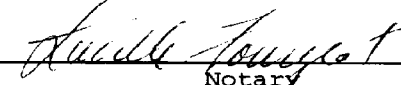
State of New York) SS.:
County of Westchester)

INVENTOR (1) On this 4th day of August 1998, before me personally came Milind W. Dawande to me personally known, and known to me to be the person described in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed.


Notary
LUCILLE FOURGEOT
NOTARY PUBLIC, State of New York
No. 4502670
Qualified in Westchester County
Commission Expires 06/30/99

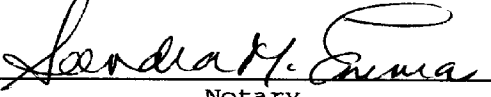
State of New York) SS.:
County of Westchester)

INVENTOR (2) On this 4th day of August 1998, before me personally came Jayant R. Kalagnanam to me personally known, and known to me to be the person described in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed.


Notary
LUCILLE FOURGEOT
NOTARY PUBLIC, State of New York
No. 4502670
Qualified in Westchester County
Commission Expires 06/30/99

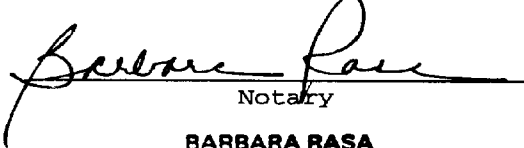
State of New York) SS.:
County of Westchester)

INVENTOR (3) On this 11th day of August 1998, before me personally came Ho Soo Lee to me personally known, and known to me to be the person described in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed.


Notary
SANDRA M. EMMA
Notary Public, State of New York
No. 01PO4935290
Qualified in Westchester County
Commission Expires July 5, 2000

State of New York) SS.:
County of Westchester)

INVENTOR (4) On this 11th day of August 1998, before me personally came Mark E. Trumbo to me personally known, and known to me to be the person described in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed.


Notary
BARBARA RASA
Notary Public, State of New York
No. 4973785
In Westchester & Dutchess Counties
Commission Expires October 29, 1998