

04-20-2000

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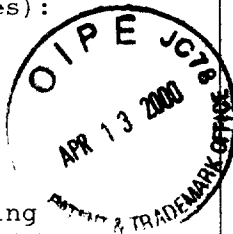
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and Trademarks:
as or copy thereof.

1. Name of conveying party(ies):

Liu Dong
Leo Y. Liu
XiaoYan Chen
XiaoPei ZhangAdditional name(s) of conveying
party(ies) attached? Yes X No2. Name and address of receiving
party(ies):Name: International Business
Machines Corporation
Address: New Orchard Road
Armonk, NY 10504Additional name(s) & addresses
attached? Yes X No

3. Nature of conveyance:

X AssignmentExecution Date(s): February 25, 2000 and
March 15, 2000

4. Patent Application number(s)

09/492,000

Execution Date(s): February 25, 2000 and
March 15, 20005. Name and address of party to
whom correspondence concerning
document should be mailed:Name: Anne Vachon Dougherty
for IBM Corporation
3173 Cedar Road
Yorktown Heights, NY 10598
Tel. No: (914) 962-59106. Total number of applications
involved: 1

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

X Charge to Deposit Account No.:
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8. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and
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Signature

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PATENT
REEL: 010701 FRAME: 0811

Assignment

Whereas, we

Inventor
and City

(1) Dong Liu of Room 501, Unit #3, Bldg 16, Qiao Jian Li
Hai Dian District, Beijing, China

and (2) Leo Y. Liu of 113 Buckden Place
Cary, North Carolina, United States of America

and (3) XiaoYan Chen of Room 403, Unit #2, Bldg 3, Cui Wei Rd.
Hai Dian District, Beijing, China

and (4) XiaoPei Zhang of Room 1008, Bldg F, TaiYue Yuan, Zhi Chun Road
Hai Dian District, Beijing, China

have invented certain improvements in

METHOD AND APPARATUS FOR PROVIDING RESPONSES FOR REQUESTS OF AN OFF-LINE CLIENT

and executed, respectively, a United States patent application therefor on
(1) *Feb. 25* 2000, and (2) *Feb. 25* 2000, and (3) *March 15* 2000, and (4) *Feb. 25* 2000.

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.

Signed and sealed

CITY (1) at *Beijing*
DATE on *2/25*

2000, Dong Liu

Dong Liu

SIGNATURE

Signed and sealed

CITY and (2) at *RTP*
DATE on *March 15*

2000, Leo Y. Liu

Leo Y. Liu

SIGNATURE

Signed and sealed

CITY and (3) at *Beijing*
DATE on *Feb. 25*

2000, XiaoYan Chen

XiaoYan Chen

SIGNATURE

Signed and sealed

CITY and (4) at *Beijing*
DATE on *Feb. 25*

2000, XiaoPei Zhang

XiaoPei Zhang

SIGNATURE