

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Zhen Liu	04/21/2004
Anton Riabov	04/28/2004
Li Zhang	03/12/2004
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:	12502714
CORRESPONDENCE DATA	
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NAME OF SUBMITTER:	George Willingham
Total Attachments: 2 source=YOR920040072US2_Assignment_executed#page1.tif source=YOR920040072US2_Assignment_executed#page2.tif	

CH \$40.00 12502714

Assignment

Whereas, we

INVENTOR AND CITY (1) Zhen Liu County of Westchester of Tarrytown and State of New York

INVENTOR AND CITY (2) Anton Biabov County of New York of New York and State of New York

INVENTOR AND CITY (3) Li Zhang County of Westchester of Yorktown Heights and State of New York

TITLE have invented certain improvements in METHODS AND APPARATUS FOR CONTENT DELIVERY VIA APPLICATION LEVEL MULTICAST WITH MINIMUM COMMUNICATION DELAY and executed, respectively, a United States patent application therefor on

DATES THAT INVENTORS SIGNED THE DECLARATION (1) 4/21/2004 2004, (2) March 12, 2004 and (3) March 12, 2004

That application was filed March 13, 2004 and assigned application no. 10/800,305. 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 applications 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 AND (1) at Hawthorne DATE on 4/21/2004, Zhen Liu SIGNATURE

CITY AND (2) at DATE on 2004, Anton Biabov SIGNATURE

CITY AND (2) at Hawthorne NY DATE on March 12 2004, Li Zhang SIGNATURE

Assignment

Whereas, we

INVENTOR (1) Zhen Liu of Tarrytown
AND CITY County of Westchester and State of New York

INVENTOR (2) Anton Riabov of New York
AND CITY County of New York and State of New York

INVENTOR (3) Li Zhang of Yorktown Heights
AND CITY County of Westchester and State of New York

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DATES THAT (1) 2004, (2) March 12, 2004 and
INVENTORS (3) March 12, 2004
SIGNED THE
DECLARATION

That application was filed March 13, 2004 and assigned application no. 10/800,305.
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 applications 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 AND (1) at
DATE on 2004, _____ SIGNATURE
Zhen Liu

CITY AND (2) at
DATE on 4/28 2004, _____ SIGNATURE
Anton Riabov

CITY AND (2) at
DATE on 2004, _____ SIGNATURE
Li Zhang