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Matthew Dale McClain	Internal Address:
Lin Xu	
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A. Patent Application No.(s)	B. Patent No.(s)
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**PATENT
REEL: 010438 FRAME: 0179**

ASSIGNMENT

Whereas, we,

(1)   Christopher Shane Claussen of Austin, County of Travis, State of Texas;

(2)   Matthew Dale McClain of Austin, County of Travis, State of Texas; and

(3)   Lin Xu of Austin, County of Travis, State of Texas;

(4)   Benjamin Charles ZumBrunnen of Farmington Hills, County of Oakland, State of Michigan,

have invented certain improvements in **CASE-INSENSITIVE CUSTOM TAG RECOGNITION AND HANDLING** and executed a United States patent application therefore on (1) _____,1999; (2) _____, 1999; (3) _____, 1999; and (4) _November 14,_____, 1999.

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 therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, 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 I request the Commissioner of Patents to issue any Letters Patent 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.

(1)   Signed at _____, Texas on _____.

_____
Christopher Shane Claussen

(2)   Signed at _____, Texas on _____.

_____
Matthew Dale McClain

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(3)   Signed at _____, Texas on _____.

_____
Lin Xu

(4)   Signed at Southfield, mI, Texas on November 14, 1999.

_____
Benjamin Charles ZumBrunnen

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ASSIGNMENT

Whereas, we,

(1)   Christopher Shane Claussen of Austin, County of Travis, State of Texas;

(2)   Matthew Dale McClain of Austin, County of Travis, State of Texas; and

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Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, 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 I request the Commissioner of Patents to issue any Letters Patent 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.

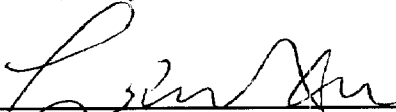(1)   Signed at _Austin_, Texas on _11/11/99_.

_____
Christopher Shane Claussen

(2)   Signed at _Austin_, Texas on _11/11/99_.

_____
Matthew Dale McClain

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(3)   Signed at _Austin_ , Texas on __11/11/99__ .

_____
Lin Xu

(4)   Signed at _____ , Texas on _____ .

_____
Benjamin CharlesZumBrunnen

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