

Atty. Docket No. Y0998-1980

06-09-1998

Mail Label No.: TB07166862XU8
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3R SHEET

J-526 U.S. Pat.
09/079986
05/15/98

MRD 5-15-98

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1. Name of conveying party(ies): Vittorio Castelli Chung-Sheng Li John Richard Smith Additional name(s) of conveying party(ies) attached? ___Yes ___X No	2. Name and address of receiving party(ies): Name: IBM Corporation Address: Armonk, NY 10504 Additional name(s) & addresses attached? ___Yes ___X No
3. Nature of conveyance: X Assignment Execution Date(s): 14 May 1998	4. Patent Application number(s) 0 / , Execution Date(s):
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Kevin M. Jordan 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 X Charge to Deposit Account No.: 09-0468

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8. Statement and signature.

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Kevin M. Jordan (Reg. No. 40,277)

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Signature

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06/04/1998 JMWATKINS 00000150 090468 09079986

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PATENT
REEL: 9216 FRAME: 0717

Assignment

Whereas, we

Inventor and City	(1) Vittorio Castelli County of Westchester	of White Plains and State of New York
	and (2) Chung-Sheng Li County of Westchester	of Ossining and State of New York
	and (3) John Richard Smith County of Nassau	of New Hyde Park and State of New York
	and (4) County of	of and State of
	and (5) County of	of and State of
	and (6) County of	of and State of

have invented certain improvements in

TITLE Interactive Retrieval and Caching of Multi-dimensional Data Using View Elements

and executed, respectively, a United States patent application therefor on

DATES THAT (1) May 14 1998, and (2) May 14 1998, and (3) May 14 1998, and
INVENTORS (4) 199 , and (5) 199 , and (6) 199 .
SIGNED THE
DECLARATION

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 Yorktown Heights, Antonio Castelli SIGNATURE
DATE on May 14, 1998, (Vittorio Castelli) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed
CITY and (2) at Yorktown Heights, Chung-Sheng Li SIGNATURE
DATE on May 14, 1998, (Chung-Sheng Li) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed
CITY and (3) at Yorktown Heights, John R. Smith SIGNATURE
DATE on May 14, 1998, (John R. Smith) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

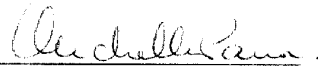
Signed and sealed
CITY and (4) at
DATE on 199 , () INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed
CITY and (5) at
DATE on 199 , () INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed
CITY and (6) at
DATE on 199 , () INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

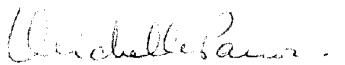
State of New York) SS.:
County of Westchester)

INVENTOR
(1) On this 14th day of May 1998, before me personally came
Vittorio Castelli 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.



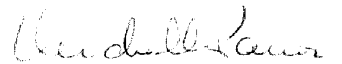
State of New York) SS.:
County of Westchester)

INVENTOR
(2) On this 14th day of May 1998, before me personally came
Chung-Sheng Li 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
MICHELLE PARRA
Notary Public, State of New York
No. 01PA5089349
Qualified in Dutchess County
Commission Expires December 8, 1999


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

INVENTOR
(3) On this 14th day of May 1998, before me personally came
John R. Smith 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
MICHELLE PARRA
Notary Public, State of New York
No. 01PA5089349
Qualified in Dutchess County
Commission Expires December 8, 1999


State of) SS.:
County of)

INVENTOR
(4) On this _____ day of _____ 199 , before me personally came
_____ 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
MICHELLE PARRA
Notary Public, State of New York
No. 01PA5089349
Qualified in Dutchess County
Commission Expires December 8, 1999

State of) SS.:
County of)

INVENTOR
(5) On this _____ day of _____ 199 , before me personally came
_____ 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

State of) SS.:
County of)

INVENTOR
(6) On this _____ day of _____ 199 , before me personally came
_____ 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