Fig.1.

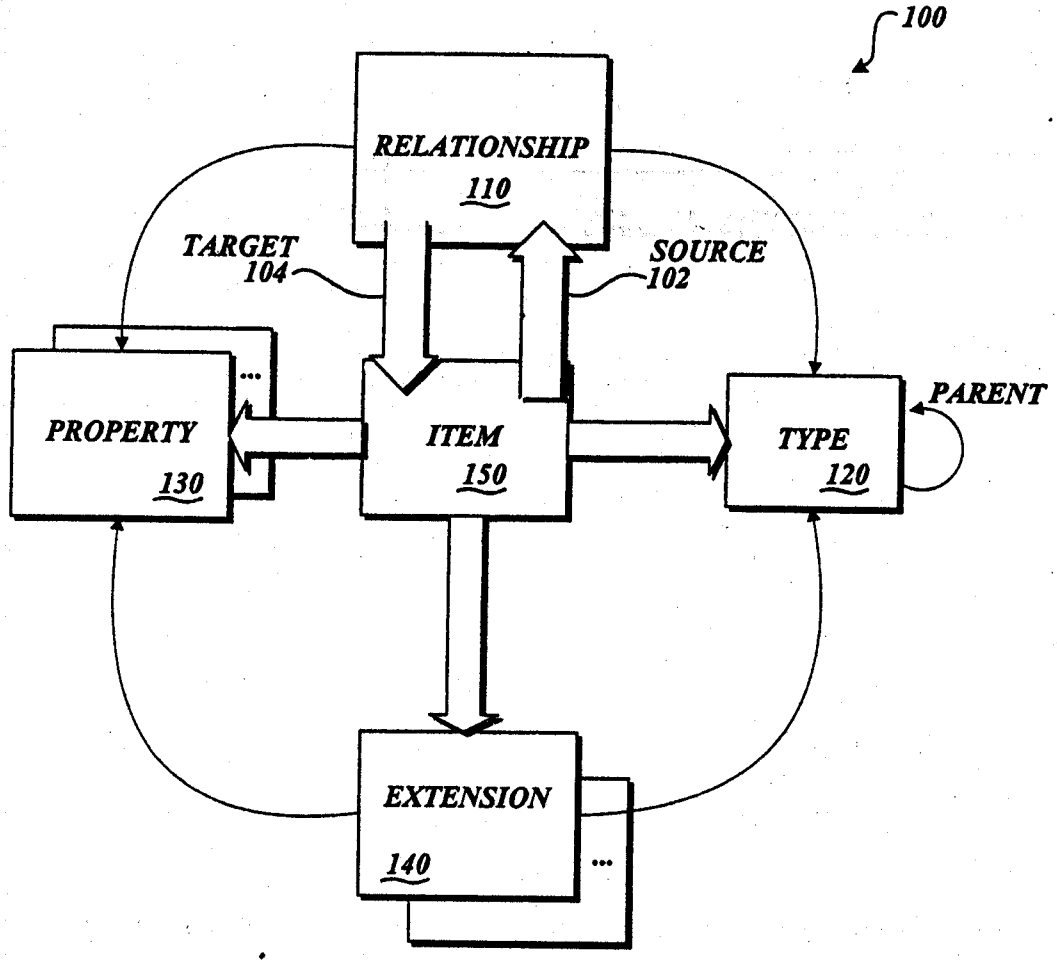

100
RELATIONSHIP
110
TARGET
104
SOURCE
102
PROPERTY
130
ITEM
150
TYPE
120
PARENT
EXTENSION
140

Fig.2.

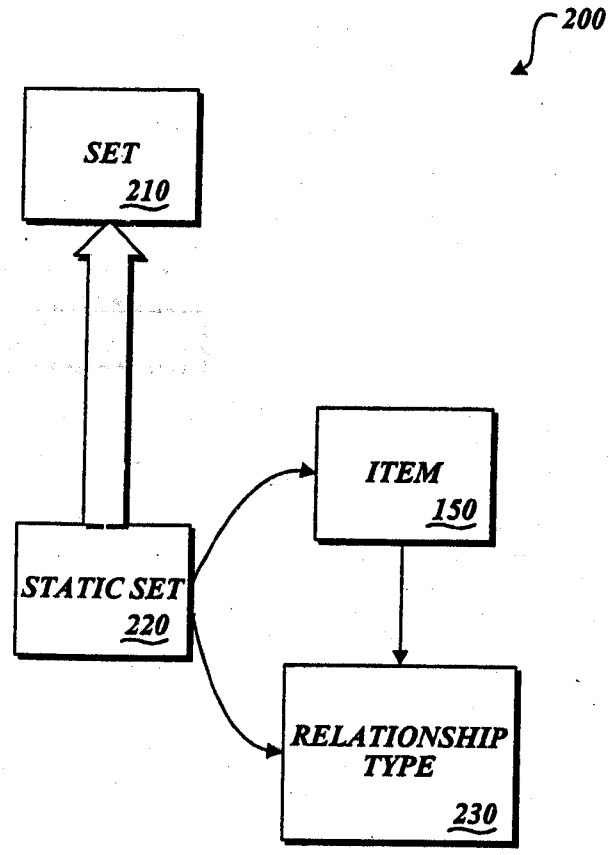


Fig.3.

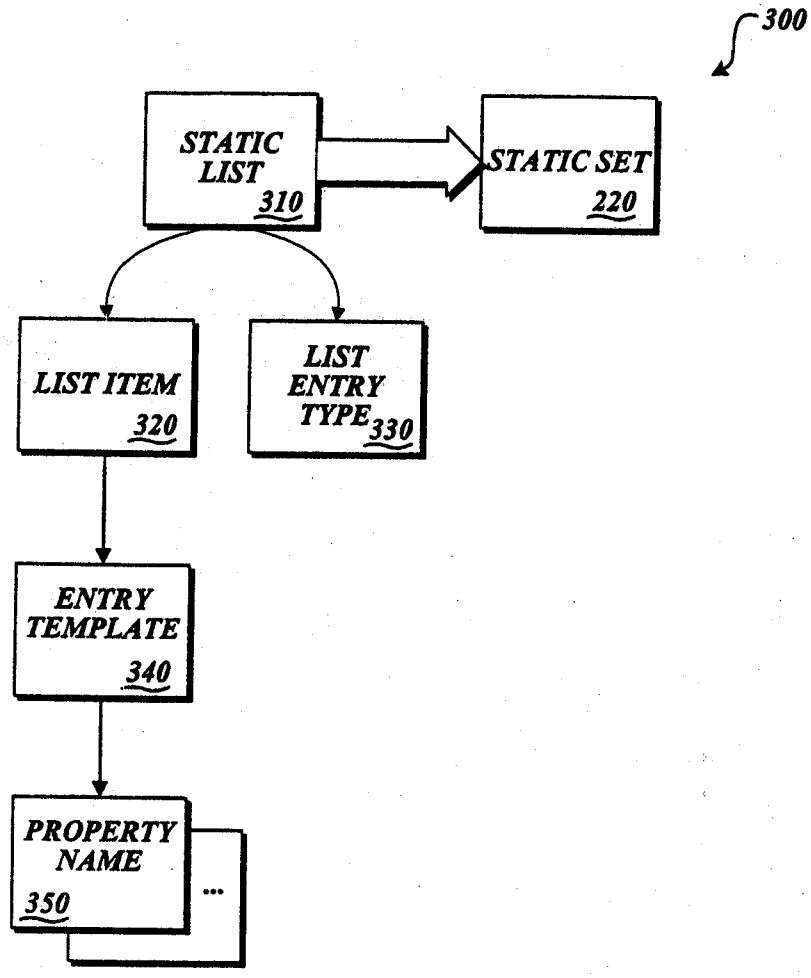

300
STATIC LIST 310
STATIC SET 220
LIST ITEM 320
LIST ENTRY TYPE 330
ENTRY TEMPLATE 340
PROPERTY NAME 350
...

Fig.4.

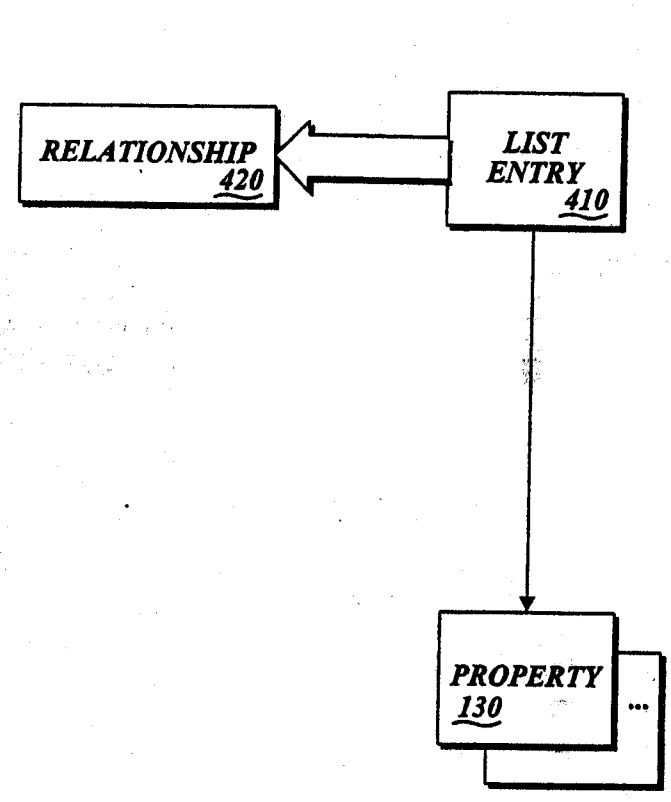


Fig.5.

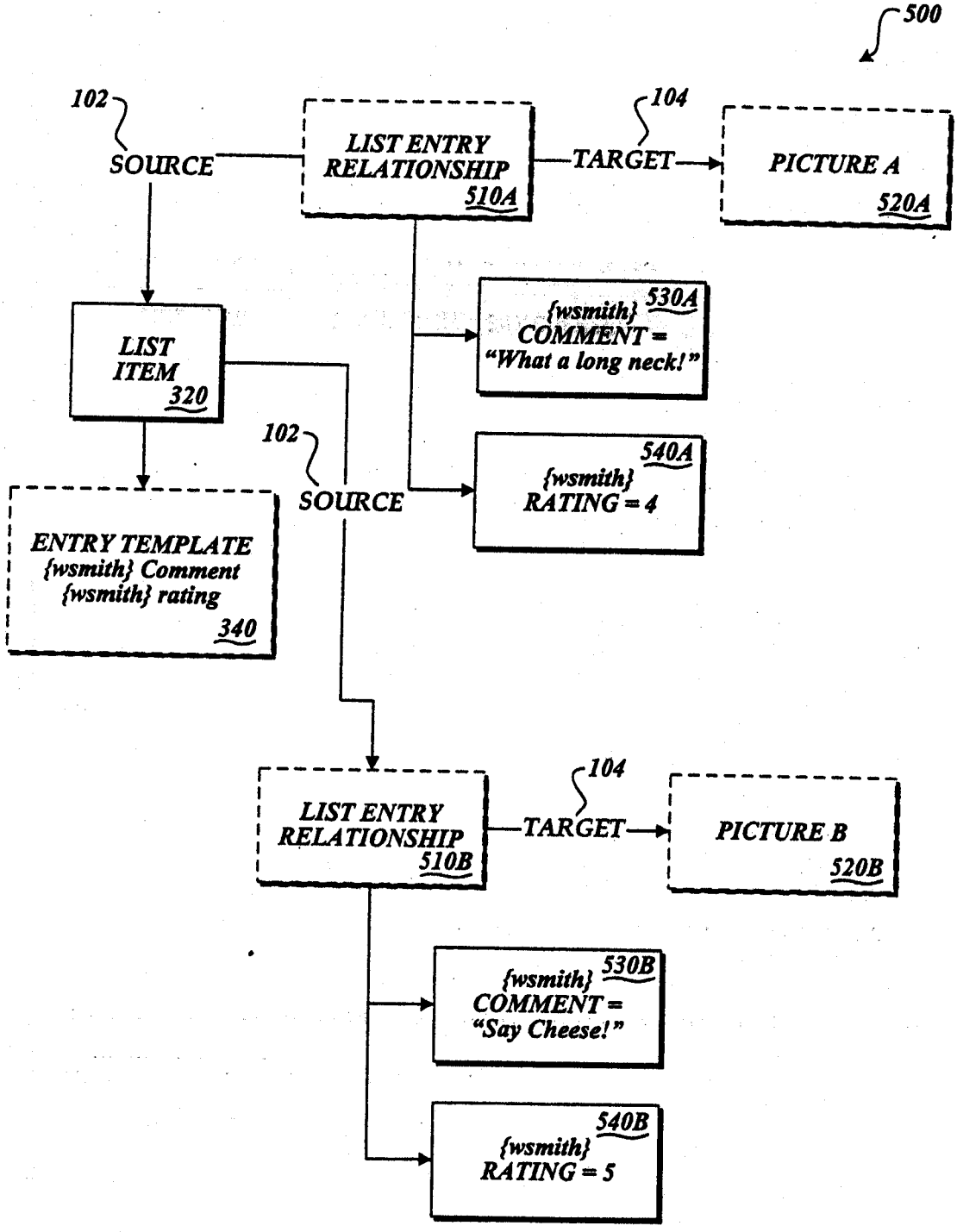

500
102
SOURCE
LIST ENTRY RELATIONSHIP 510A
104
TARGET
PICTURE A 520A
LIST ITEM 320
{wsmith} 530A
COMMENT = "What a long neck!"
102
SOURCE
540A
{wsmith} RATING = 4
ENTRY TEMPLATE {wsmith} Comment {wsmith} rating 340
LIST ENTRY RELATIONSHIP 510B
104
TARGET
PICTURE B 520B
{wsmith} 530B
COMMENT = "Say Cheese!"
540B
{wsmith} RATING = 5

Fig.6.

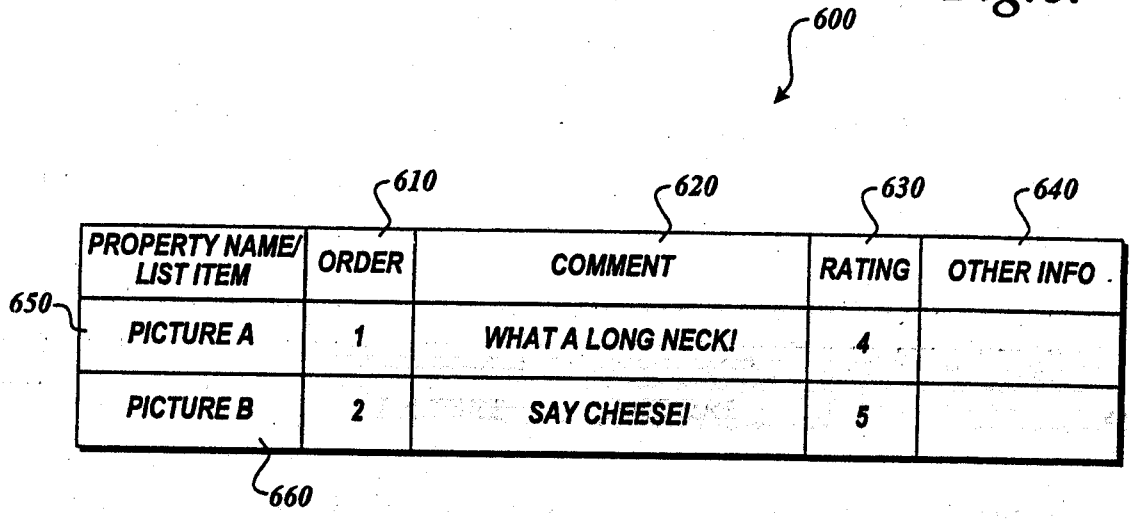

600
610
620
630
640
650
660
PROPERTY NAME/ LIST ITEM
ORDER
COMMENT
RATING
OTHER INFO
PICTURE A
1
WHAT A LONG NECK!
4
PICTURE B
2
SAY CHEESE!
5

Fig.7.

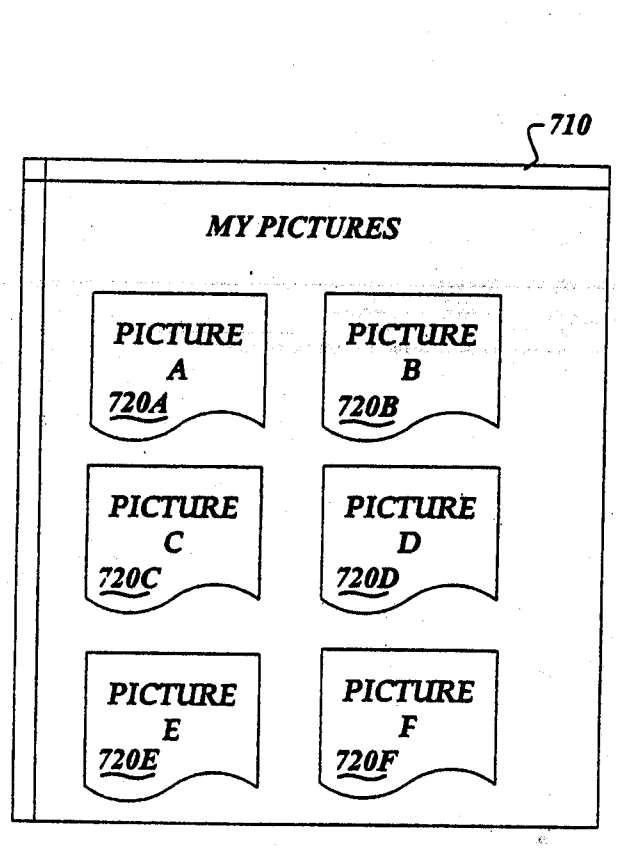

700
710
MY PICTURES
PICTURE A
720A
PICTURE B
720B
PICTURE C
720C
PICTURE D
720D
PICTURE E
720E
PICTURE F
720F

Fig.8.

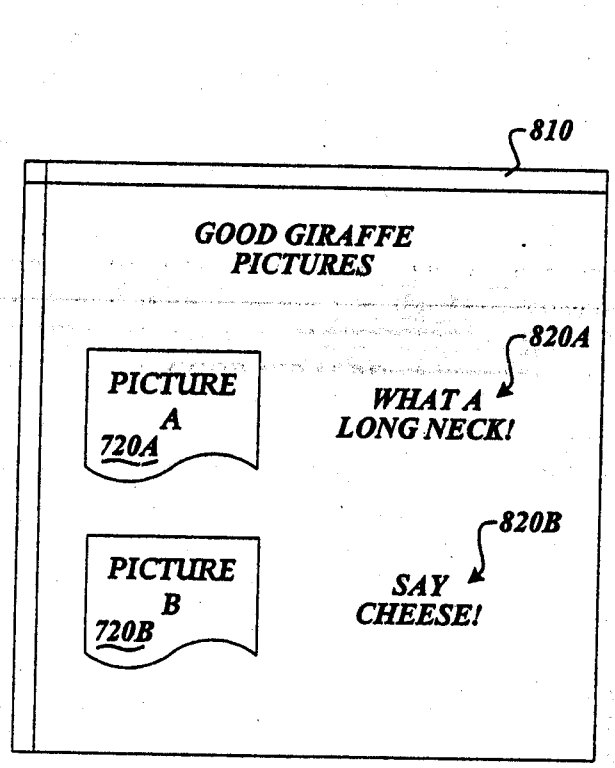

800
810
GOOD GIRAFFE PICTURES
820A
PICTURE A
720A
WHAT A LONG NECK!
820B
PICTURE B
720B
SAY CHEESE!

Fig.9.

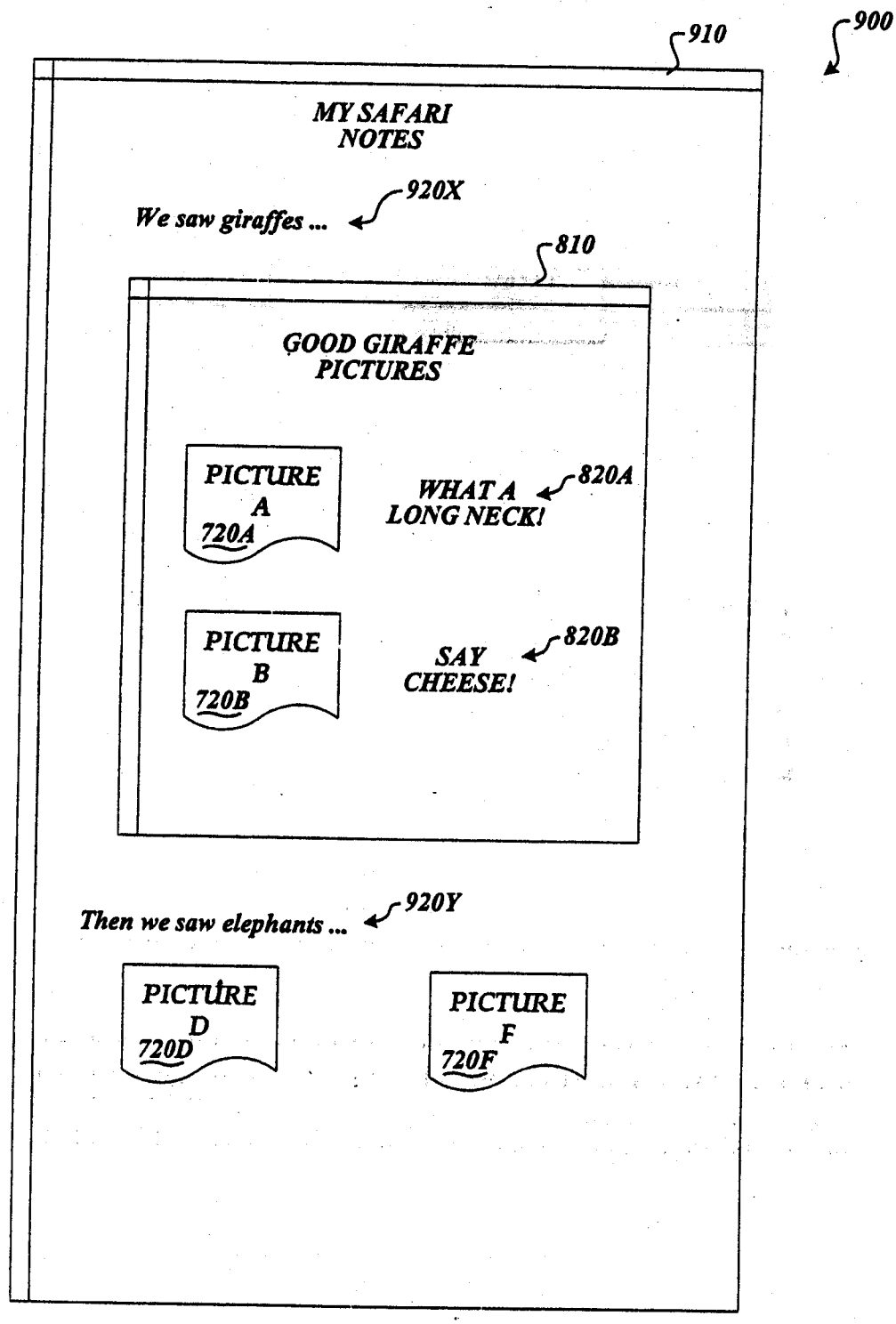
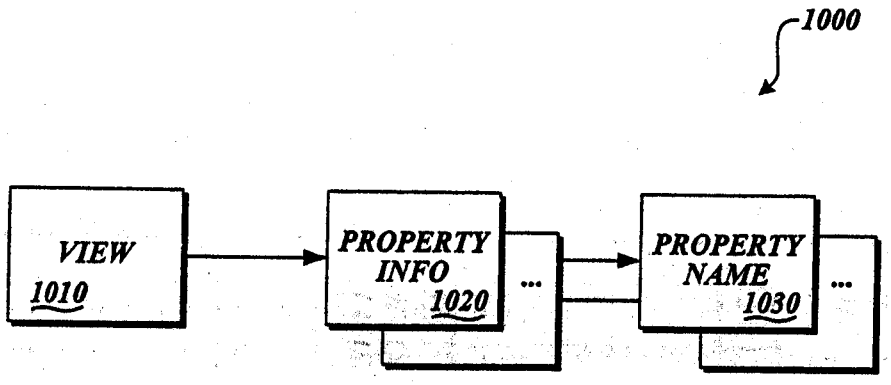

900
910
MY SAFARI NOTES
920X
We saw giraffes ...
810
GOOD GIRAFFE PICTURES
PICTURE A
720A
WHAT A LONG NECK!
820A
PICTURE B
720B
SAY CHEESE!
820B
Then we saw elephants ...
920Y
PICTURE D
720D
PICTURE F
720F

Fig.10.



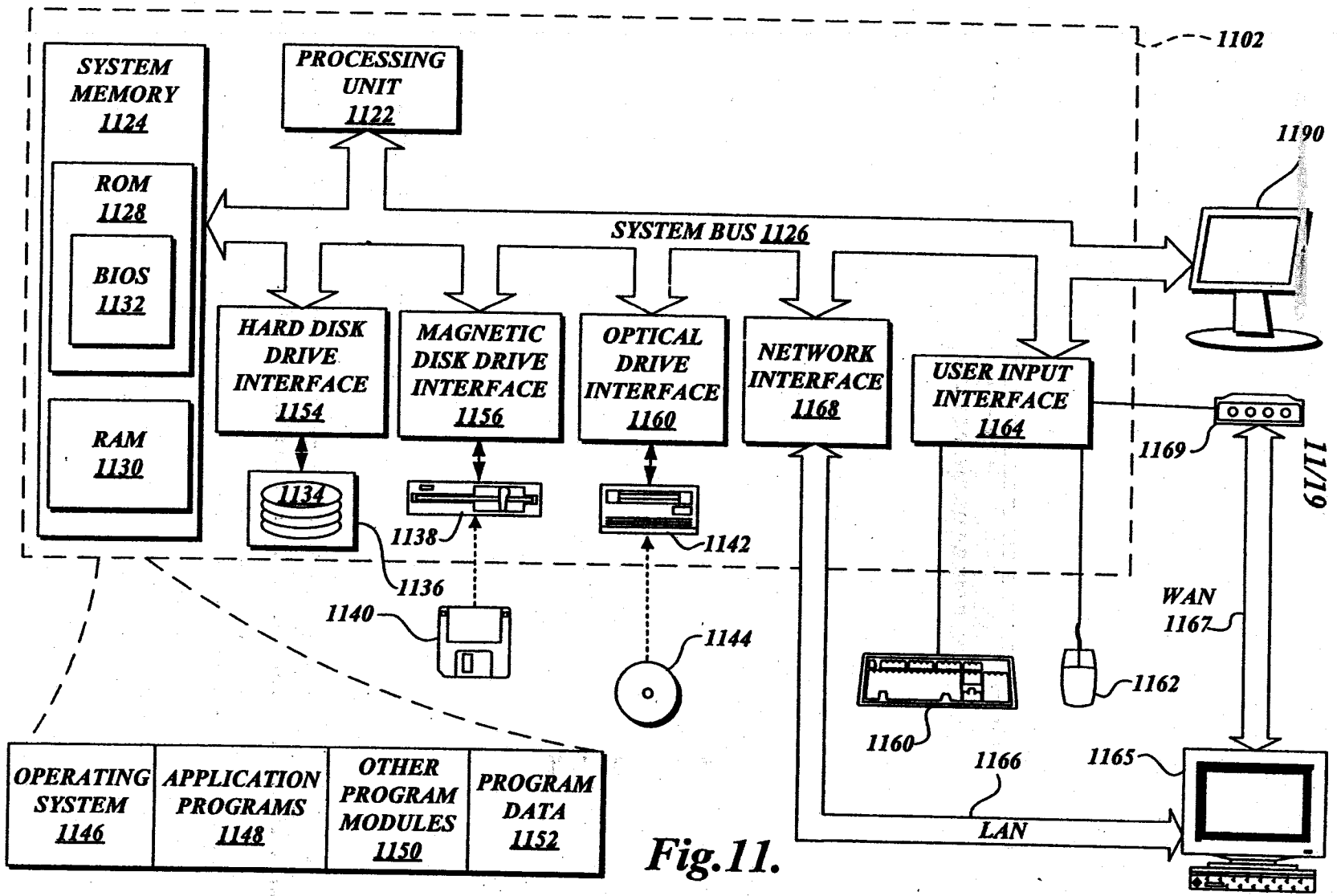

1102
SYSTEM MEMORY 1124
PROCESSING UNIT 1122
ROM 1128
BIOS 1132
RAM 1130
SYSTEM BUS 1126
HARD DISK DRIVE INTERFACE 1154
MAGNETIC DISK DRIVE INTERFACE 1156
OPTICAL DRIVE INTERFACE 1160
NETWORK INTERFACE 1168
USER INPUT INTERFACE 1164
1190
1169
11/19
1134
1138
1142
1136
1140
1144
WAN 1167
1162
1160
1166
1165
LAN
OPERATING SYSTEM 1146
APPLICATION PROGRAMS 1148
OTHER PROGRAM MODULES 1150
PROGRAM DATA 1152

Fig.11.

Fig.12.

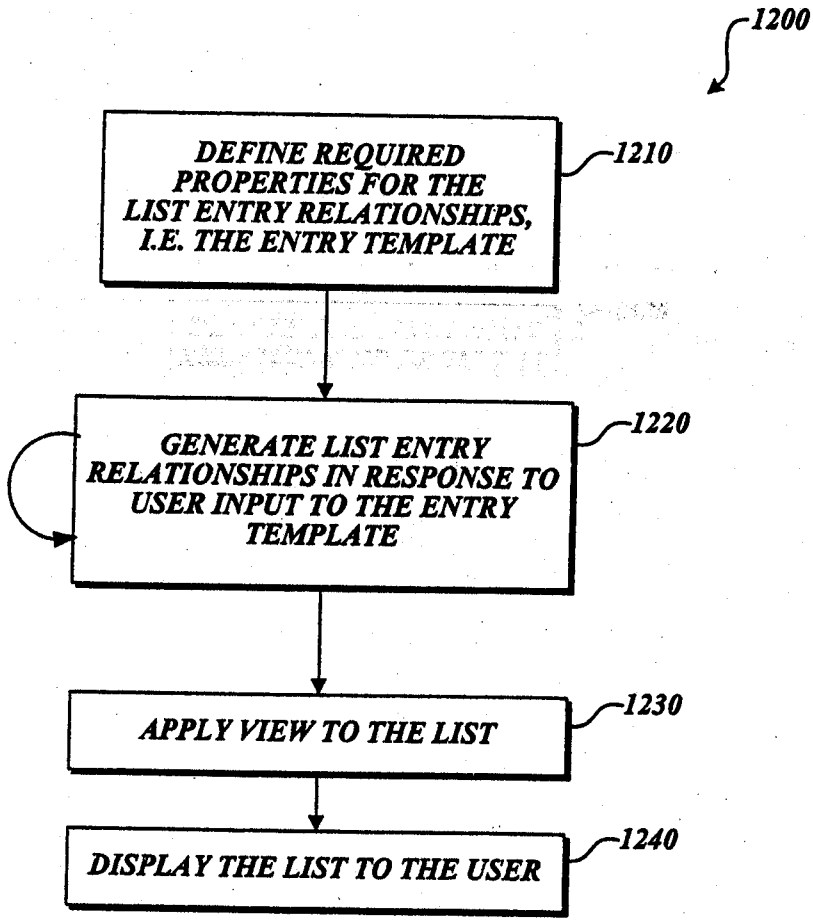

1200
DEFINE REQUIRED PROPERTIES FOR THE LIST ENTRY RELATIONSHIPS, I.E. THE ENTRY TEMPLATE
1210
GENERATE LIST ENTRY RELATIONSHIPS IN RESPONSE TO USER INPUT TO THE ENTRY TEMPLATE
1220
APPLY VIEW TO THE LIST
1230
DISPLAY THE LIST TO THE USER
1240

Fig.13.

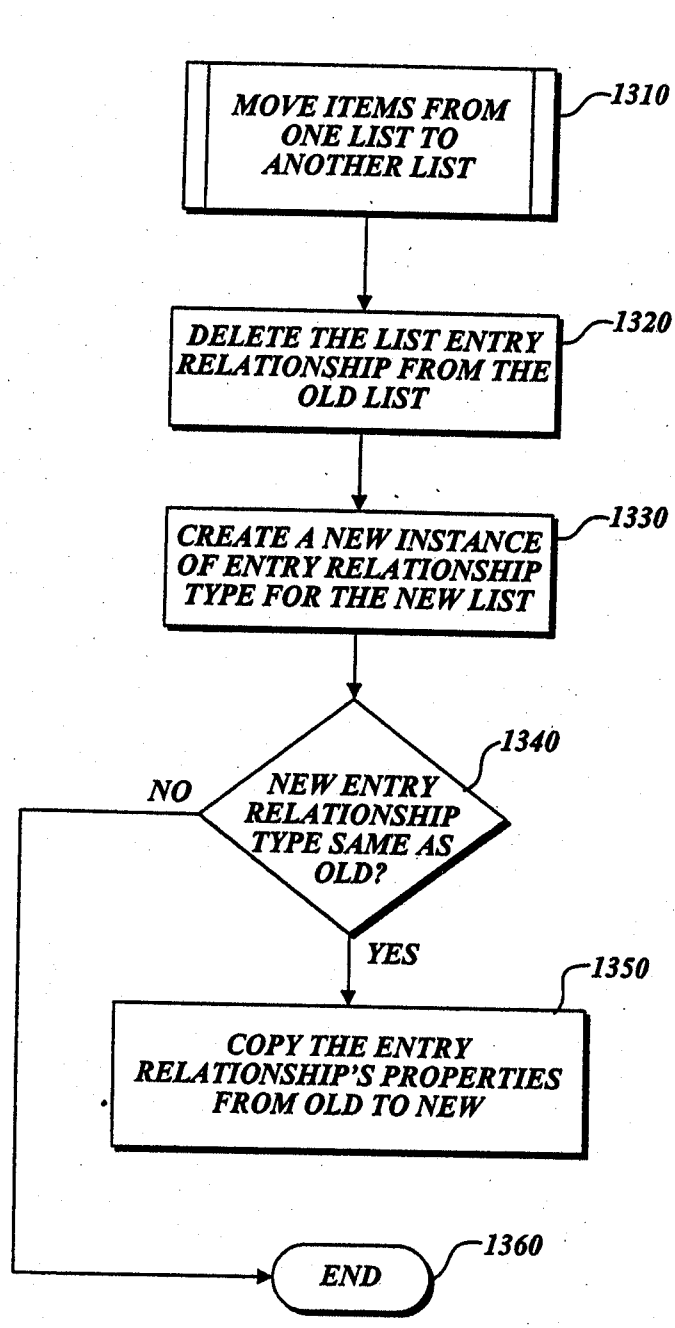

1300
MOVE ITEMS FROM ONE LIST TO ANOTHER LIST
1310
DELETE THE LIST ENTRY RELATIONSHIP FROM THE OLD LIST
1320
CREATE A NEW INSTANCE OF ENTRY RELATIONSHIP TYPE FOR THE NEW LIST
1330
NEW ENTRY RELATIONSHIP TYPE SAME AS OLD?
1340
NO
YES
COPY THE ENTRY RELATIONSHIP'S PROPERTIES FROM OLD TO NEW
1350
END
1360

Fig.14.

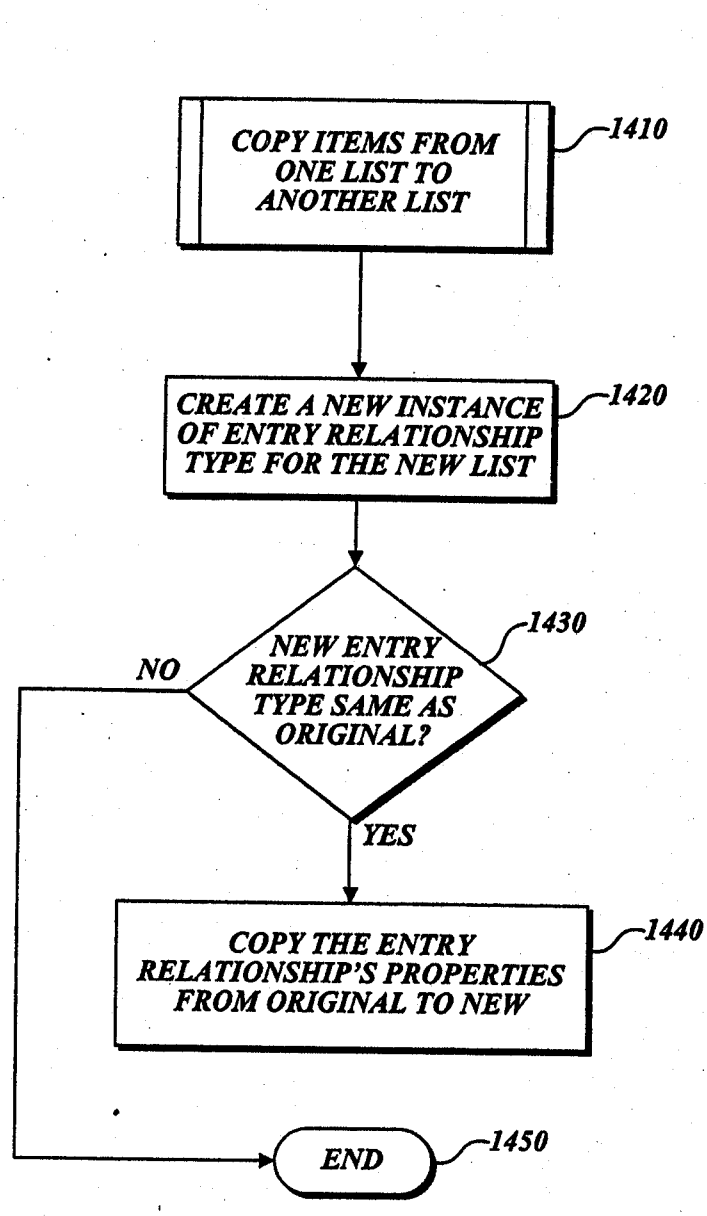

1400
COPY ITEMS FROM ONE LIST TO ANOTHER LIST
1410
CREATE A NEW INSTANCE OF ENTRY RELATIONSHIP TYPE FOR THE NEW LIST
1420
NEW ENTRY RELATIONSHIP TYPE SAME AS ORIGINAL?
1430
NO
YES
COPY THE ENTRY RELATIONSHIP'S PROPERTIES FROM ORIGINAL TO NEW
1440
END
1450

Fig.15.

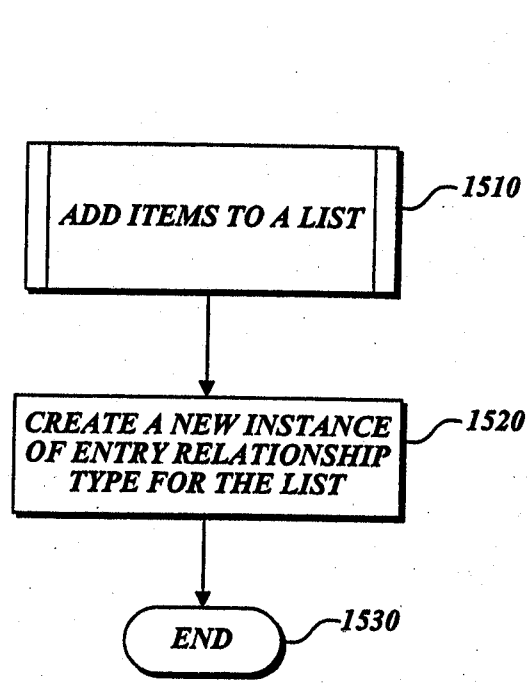

1500
ADD ITEMS TO A LIST
1510
CREATE A NEW INSTANCE OF ENTRY RELATIONSHIP TYPE FOR THE LIST
1520
END
1530

Fig.16.

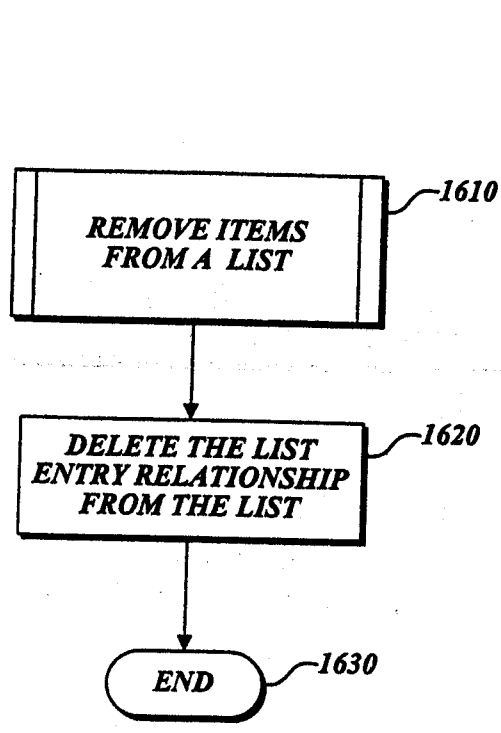

1600
REMOVE ITEMS FROM A LIST
1610
DELETE THE LIST ENTRY RELATIONSHIP FROM THE LIST
1620
END
1630

Fig.17.

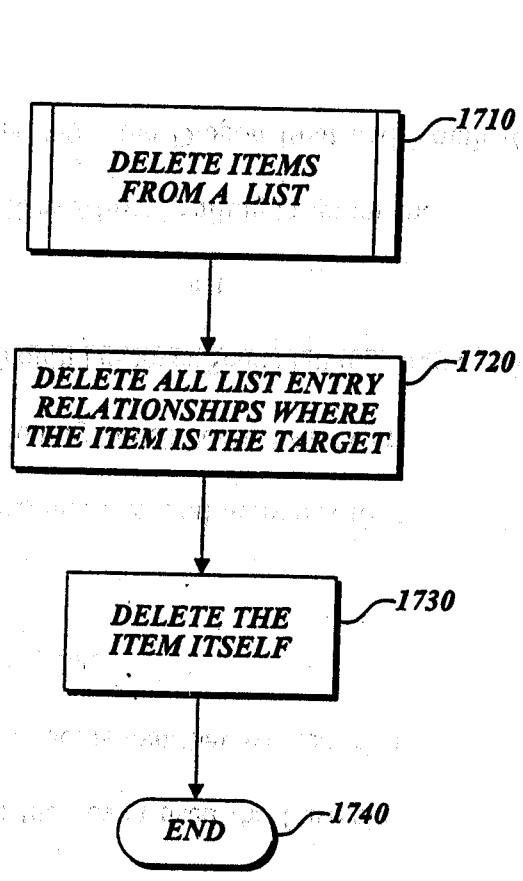

1700
DELETE ITEMS FROM A LIST
1710
DELETE ALL LIST ENTRY RELATIONSHIPS WHERE THE ITEM IS THE TARGET
1720
DELETE THE ITEM ITSELF
1730
END
1740

Fig.18.

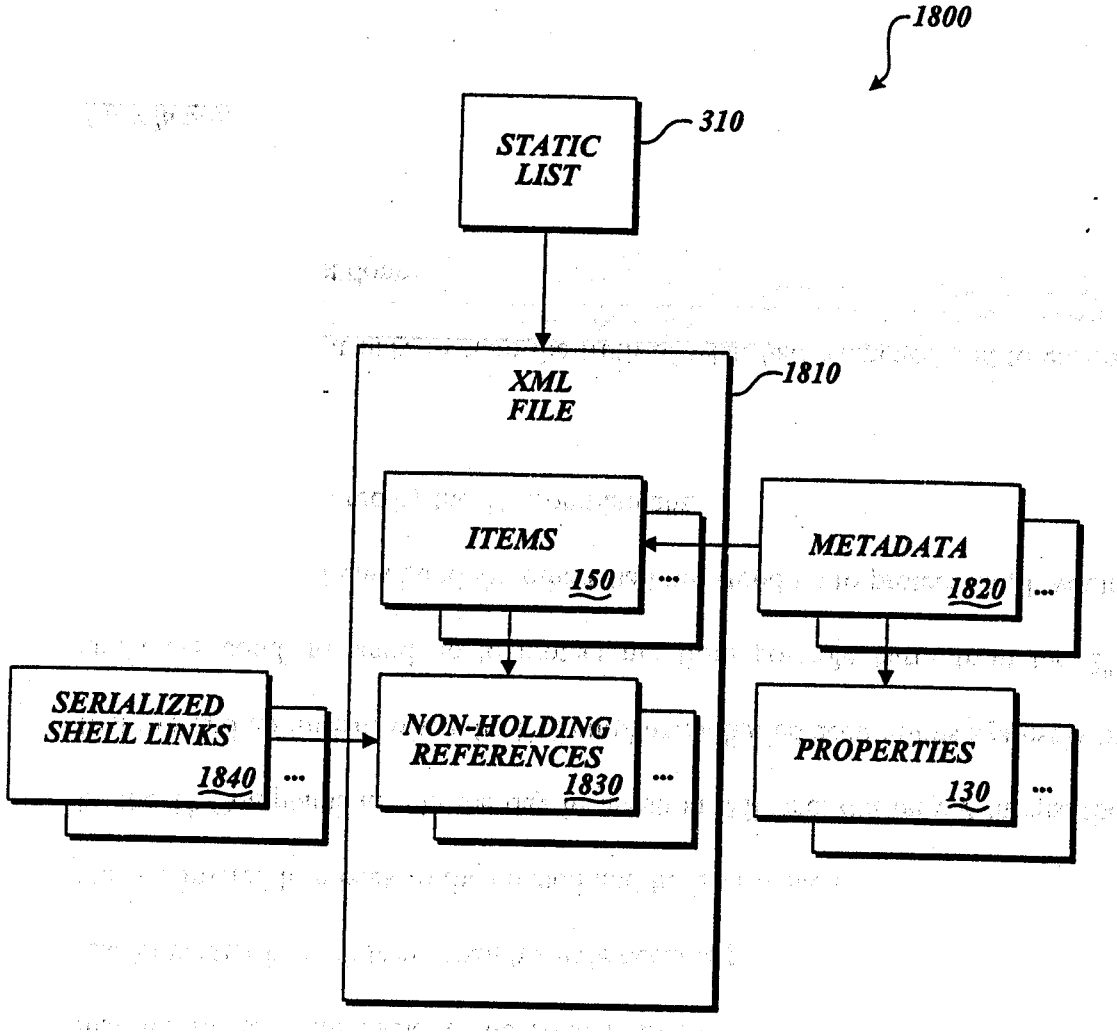
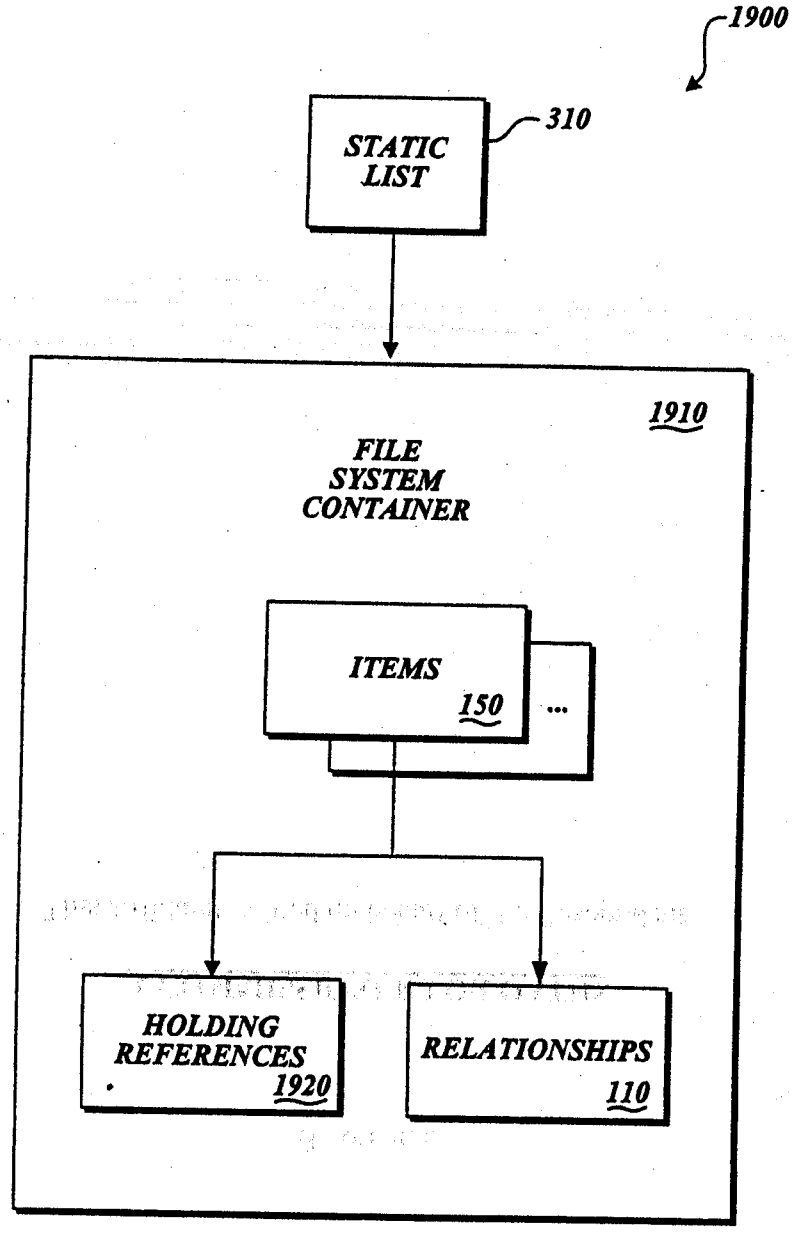

1800
STATIC LIST
310
XML FILE
1810
ITEMS
150
METADATA
1820
SERIALIZED SHELL LINKS
1840
NON-HOLDING REFERENCES
1830
PROPERTIES
130

Fig.19.


1900
STATIC LIST
310
1910
FILE SYSTEM CONTAINER
ITEMS
150
...
HOLDING REFERENCES
1920
RELATIONSHIPS
110