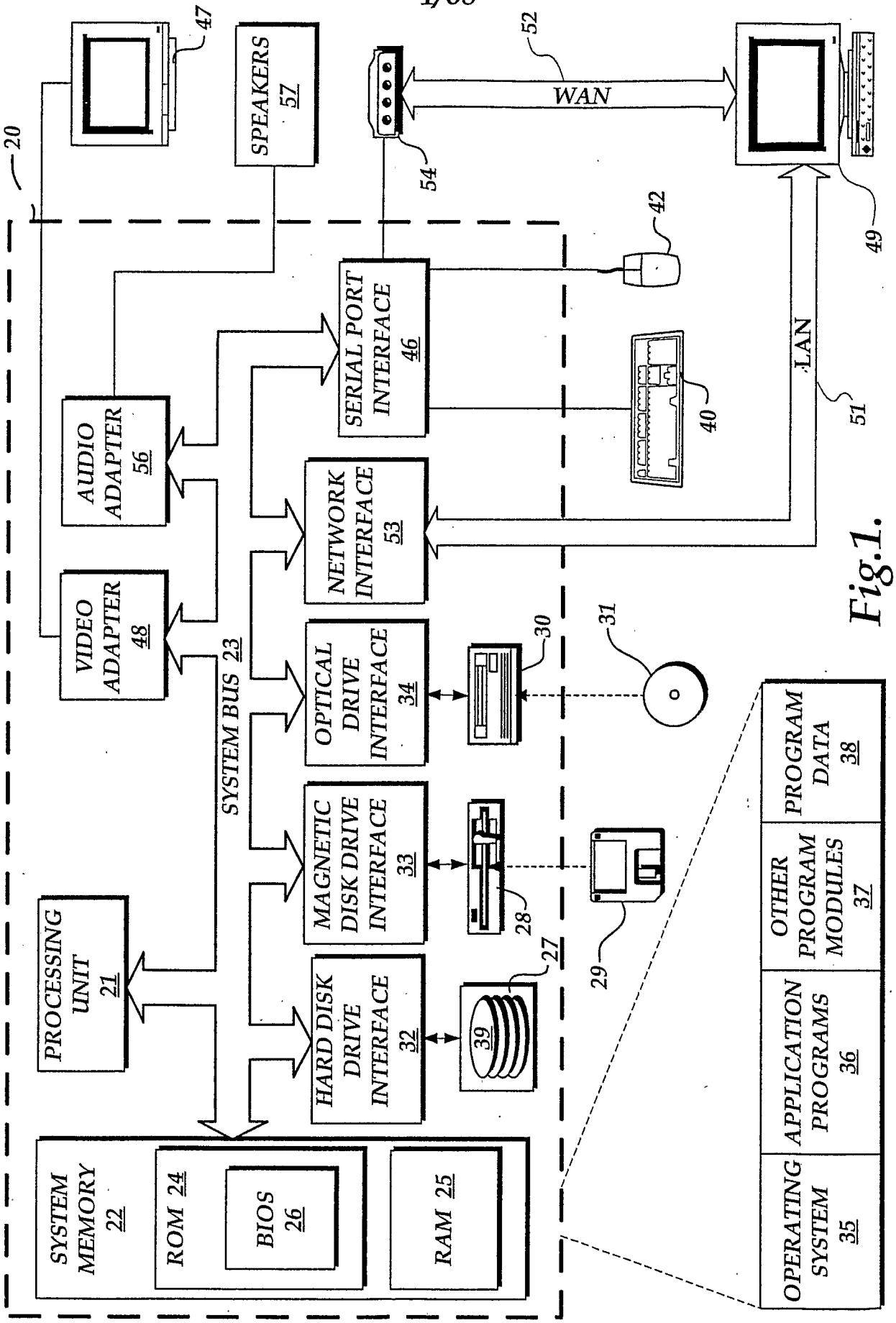

20
47
SPEAKERS 57
52
WAN
54
49
42
SERIAL PORT INTERFACE 46
40
LAN
51
AUDIO ADAPTER 56
NETWORK INTERFACE 53
VIDEO ADAPTER 48
SYSTEM BUS 23
OPTICAL DRIVE INTERFACE 34
30
31
MAGNETIC DISK DRIVE INTERFACE 33
28
29
PROCESSING UNIT 21
HARD DISK DRIVE INTERFACE 32
27
39
SYSTEM MEMORY 22
ROM 24
BIOS 26
RAM 25
OPERATING SYSTEM 35
APPLICATION PROGRAMS 36
OTHER PROGRAM MODULES 37
PROGRAM DATA 38

Fig.1.

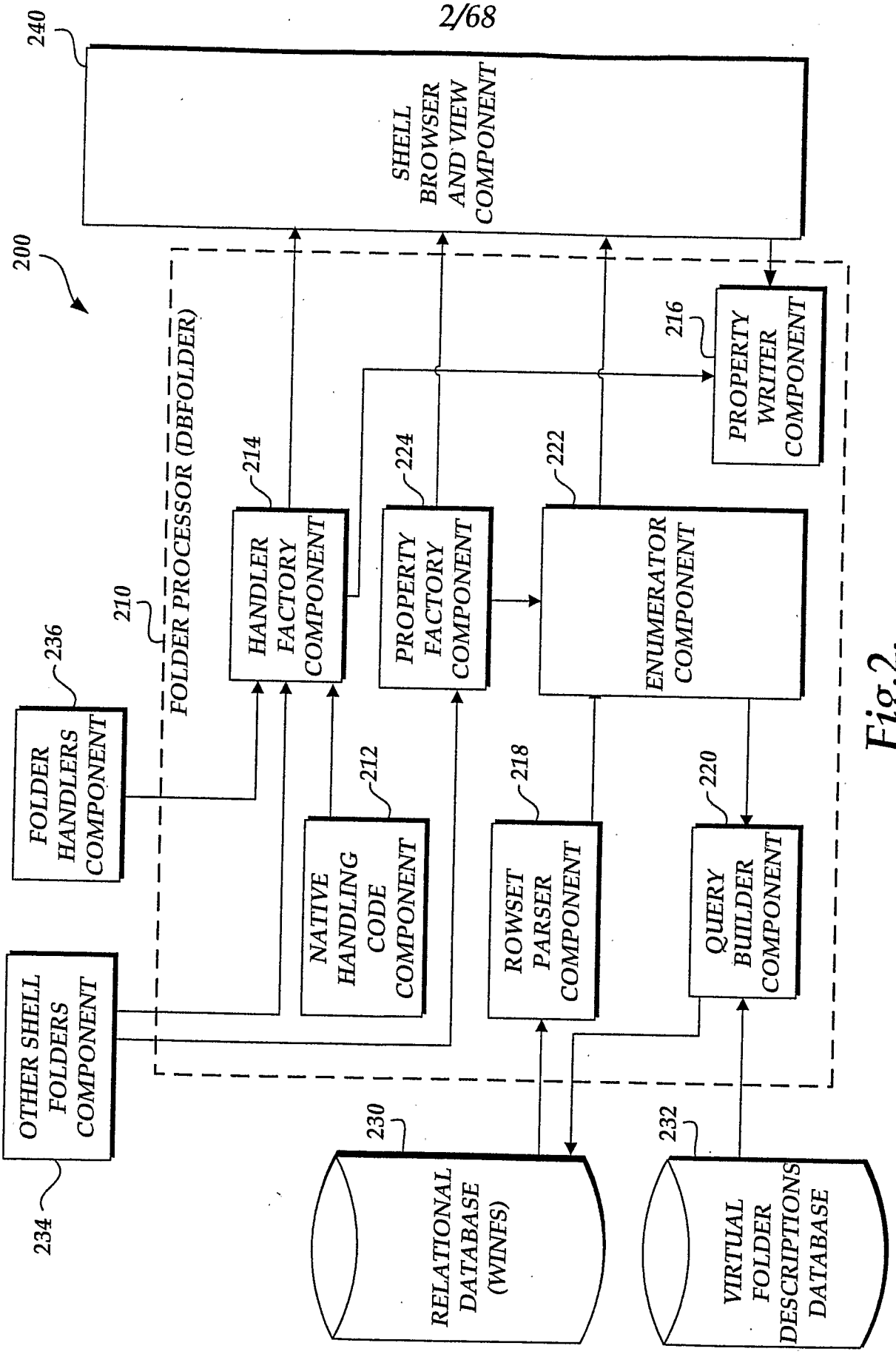

240
SHELL BROWSER AND VIEW COMPONENT
200
FOLDER PROCESSOR (DBFOLDER)
210
216
PROPERTY WRITER COMPONENT
214
HANDLER FACTORY COMPONENT
224
PROPERTY FACTORY COMPONENT
222
ENUMERATOR COMPONENT
236
FOLDER HANDLERS COMPONENT
212
NATIVE HANDLING CODE COMPONENT
218
ROWSET PARSER COMPONENT
220
QUERY BUILDER COMPONENT
OTHER SHELL FOLDERS COMPONENT
234
230
RELATIONAL DATABASE (WINFS)
232
VIRTUAL FOLDER DESCRIPTIONS DATABASE

Fig.2.

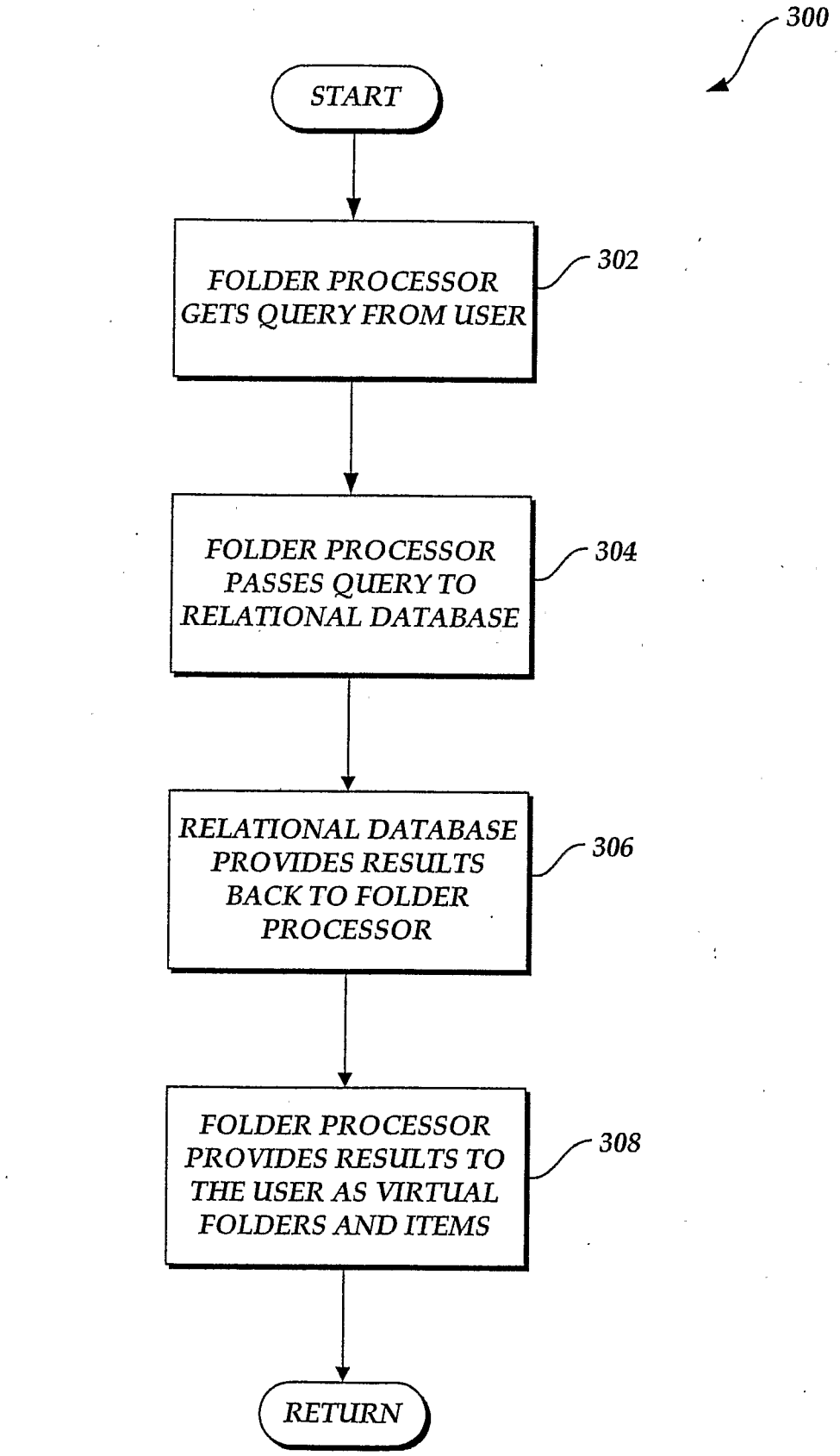

300
START
FOLDER PROCESSOR GETS QUERY FROM USER
302
FOLDER PROCESSOR PASSES QUERY TO RELATIONAL DATABASE
304
RELATIONAL DATABASE PROVIDES RESULTS BACK TO FOLDER PROCESSOR
306
FOLDER PROCESSOR PROVIDES RESULTS TO THE USER AS VIRTUAL FOLDERS AND ITEMS
308
RETURN

Fig.3.

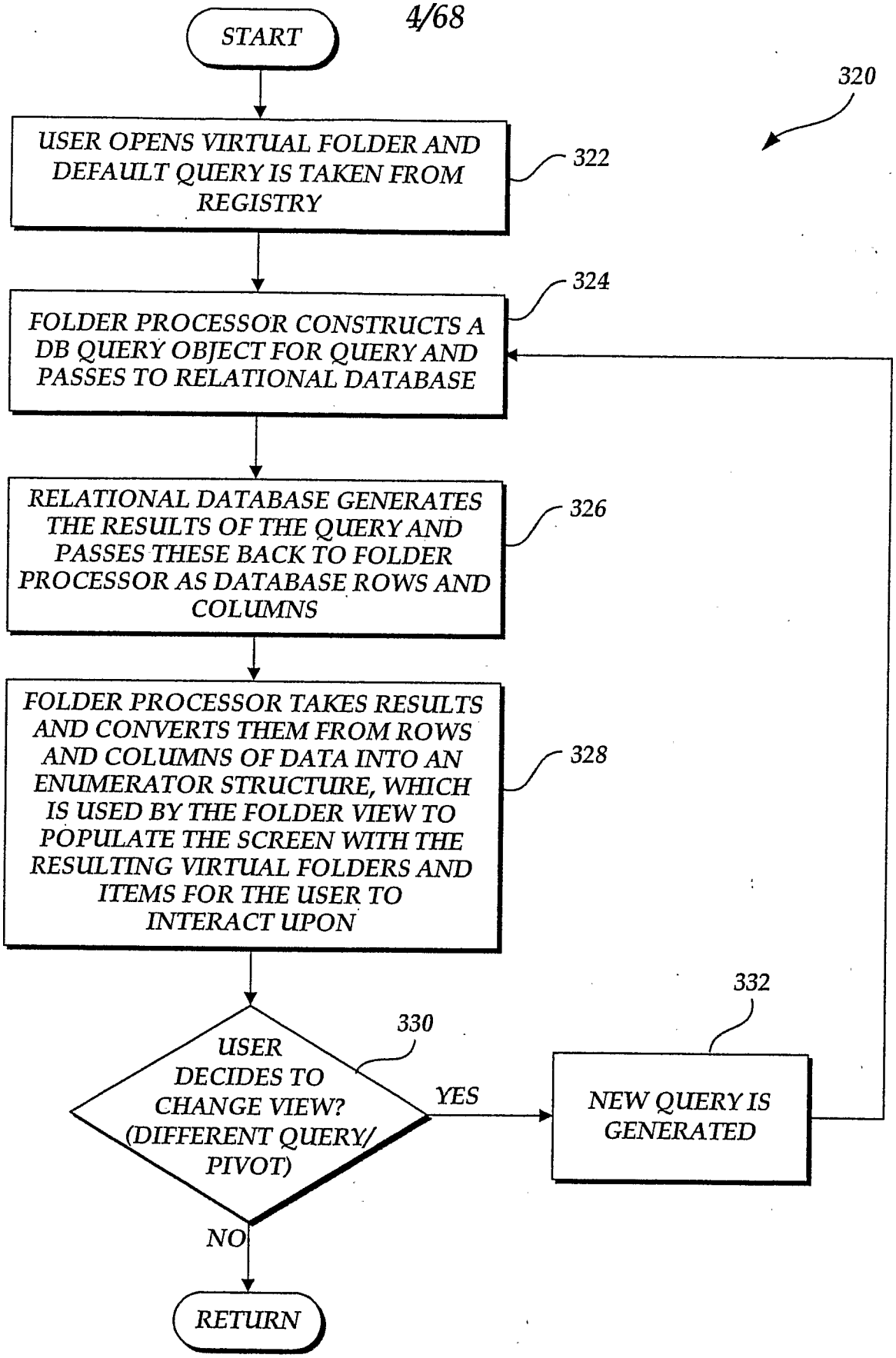

START
320
USER OPENS VIRTUAL FOLDER AND DEFAULT QUERY IS TAKEN FROM REGISTRY
322
324
FOLDER PROCESSOR CONSTRUCTS A DB QUERY OBJECT FOR QUERY AND PASSES TO RELATIONAL DATABASE
RELATIONAL DATABASE GENERATES THE RESULTS OF THE QUERY AND PASSES THESE BACK TO FOLDER PROCESSOR AS DATABASE ROWS AND COLUMNS
326
FOLDER PROCESSOR TAKES RESULTS AND CONVERTS THEM FROM ROWS AND COLUMNS OF DATA INTO AN ENUMERATOR STRUCTURE, WHICH IS USED BY THE FOLDER VIEW TO POPULATE THE SCREEN WITH THE RESULTING VIRTUAL FOLDERS AND ITEMS FOR THE USER TO INTERACT UPON
328
330
USER DECIDES TO CHANGE VIEW? (DIFFERENT QUERY/ PIVOT)
YES
332
NEW QUERY IS GENERATED
NO
RETURN

Fig.4.

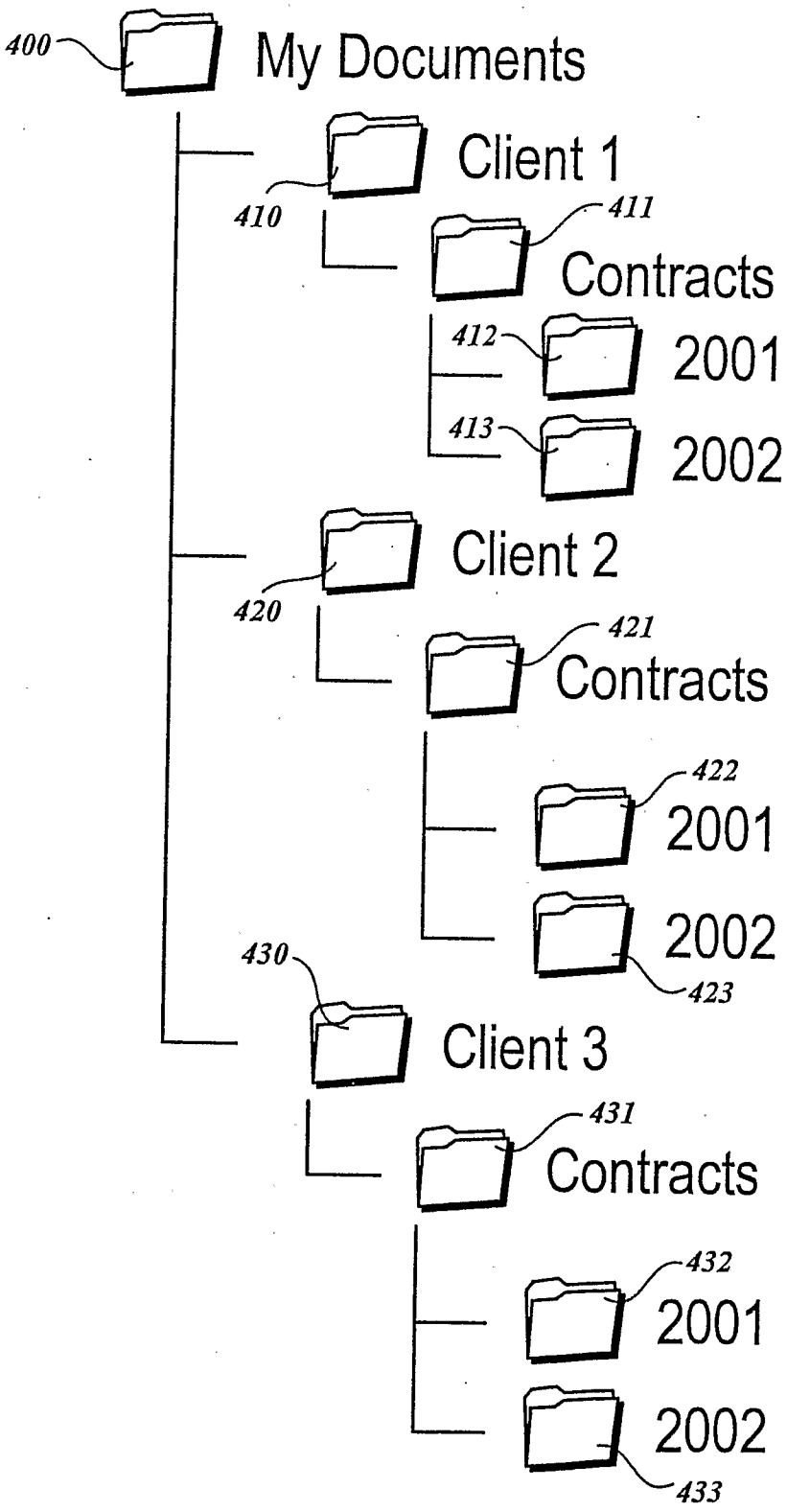

400
My Documents
Client 1
410
411
Contracts
412
2001
413
2002
Client 2
420
421
Contracts
422
2001
2002
423
430
Client 3
431
Contracts
432
2001
2002
433

Fig.5.

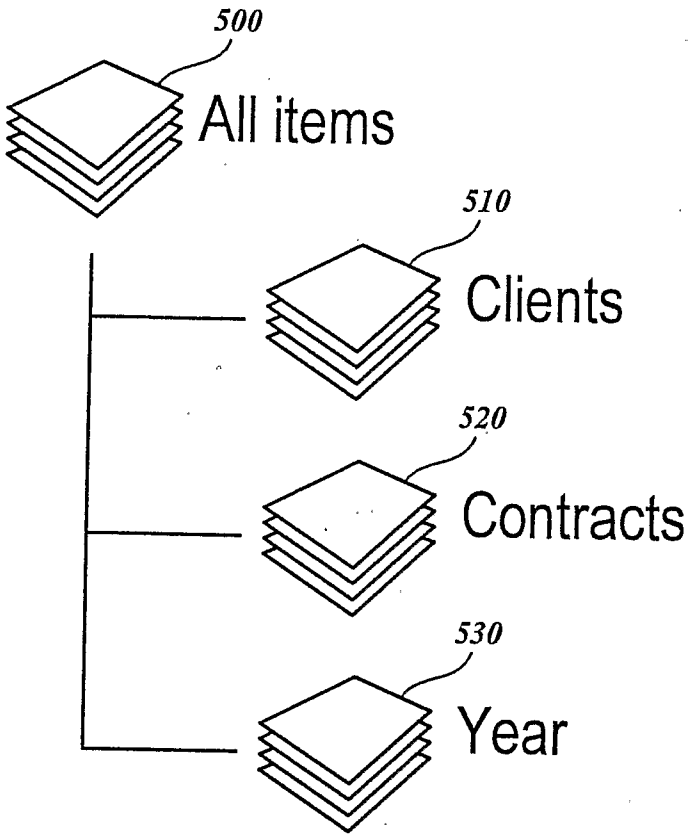


Fig.6.

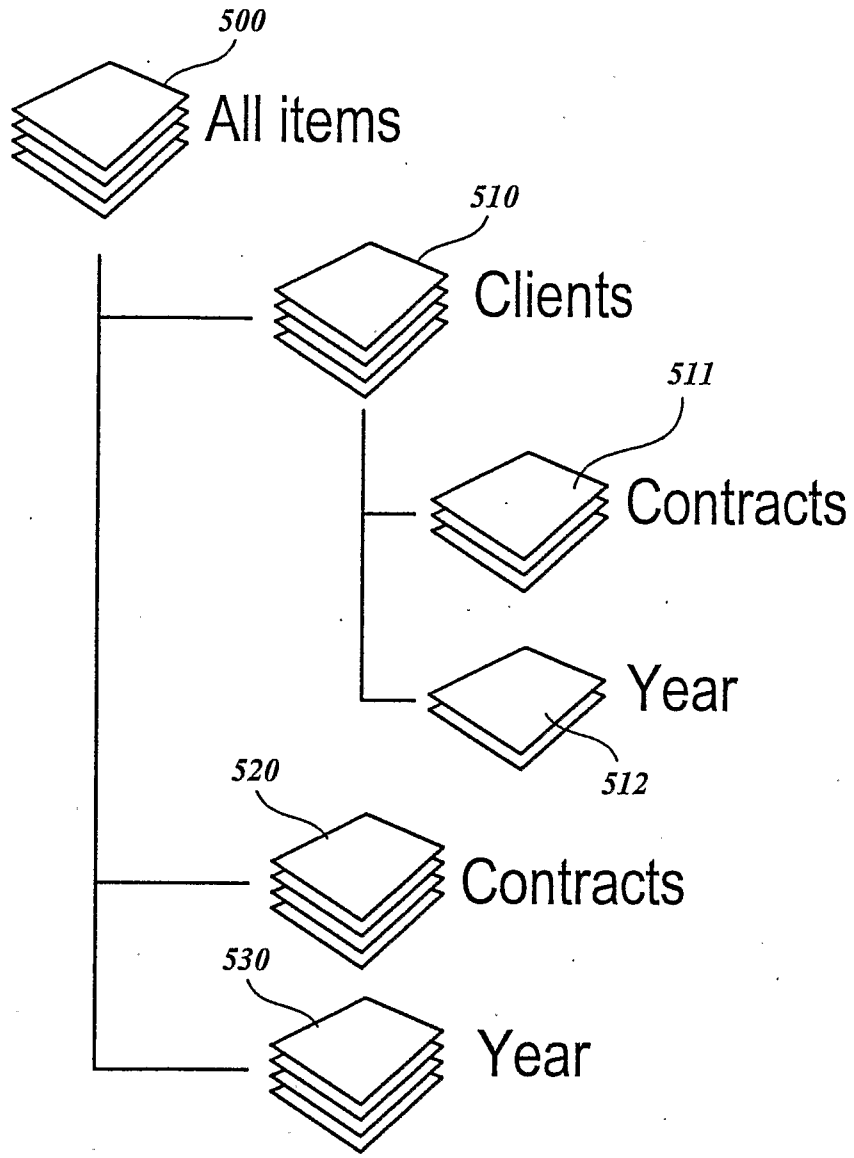

500
All items
510
Clients
511
Contracts
Year
512
520
Contracts
530
Year

Fig.7.

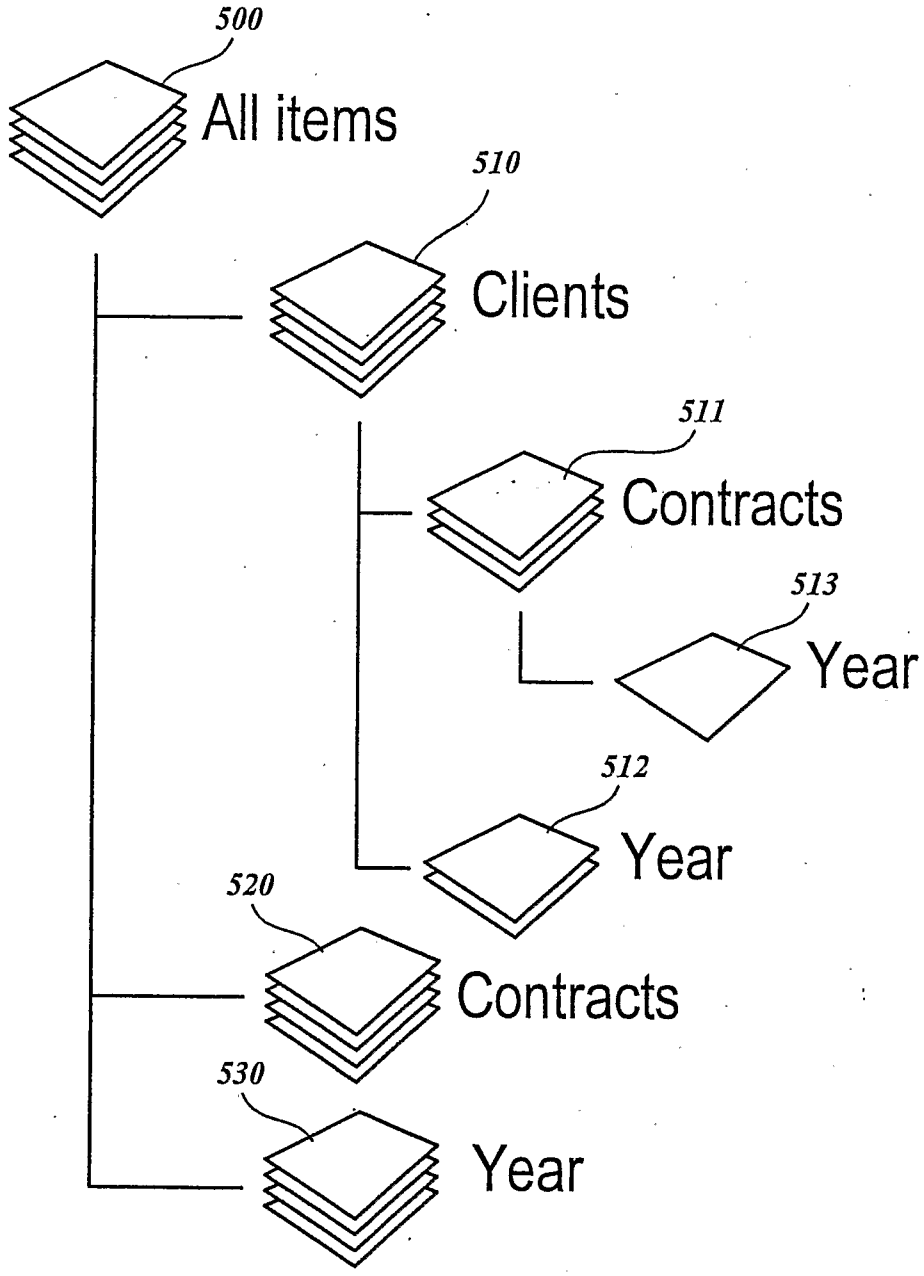

500
All items
510
Clients
511
Contracts
513
Year
512
Year
520
Contracts
530
Year

Fig.8.

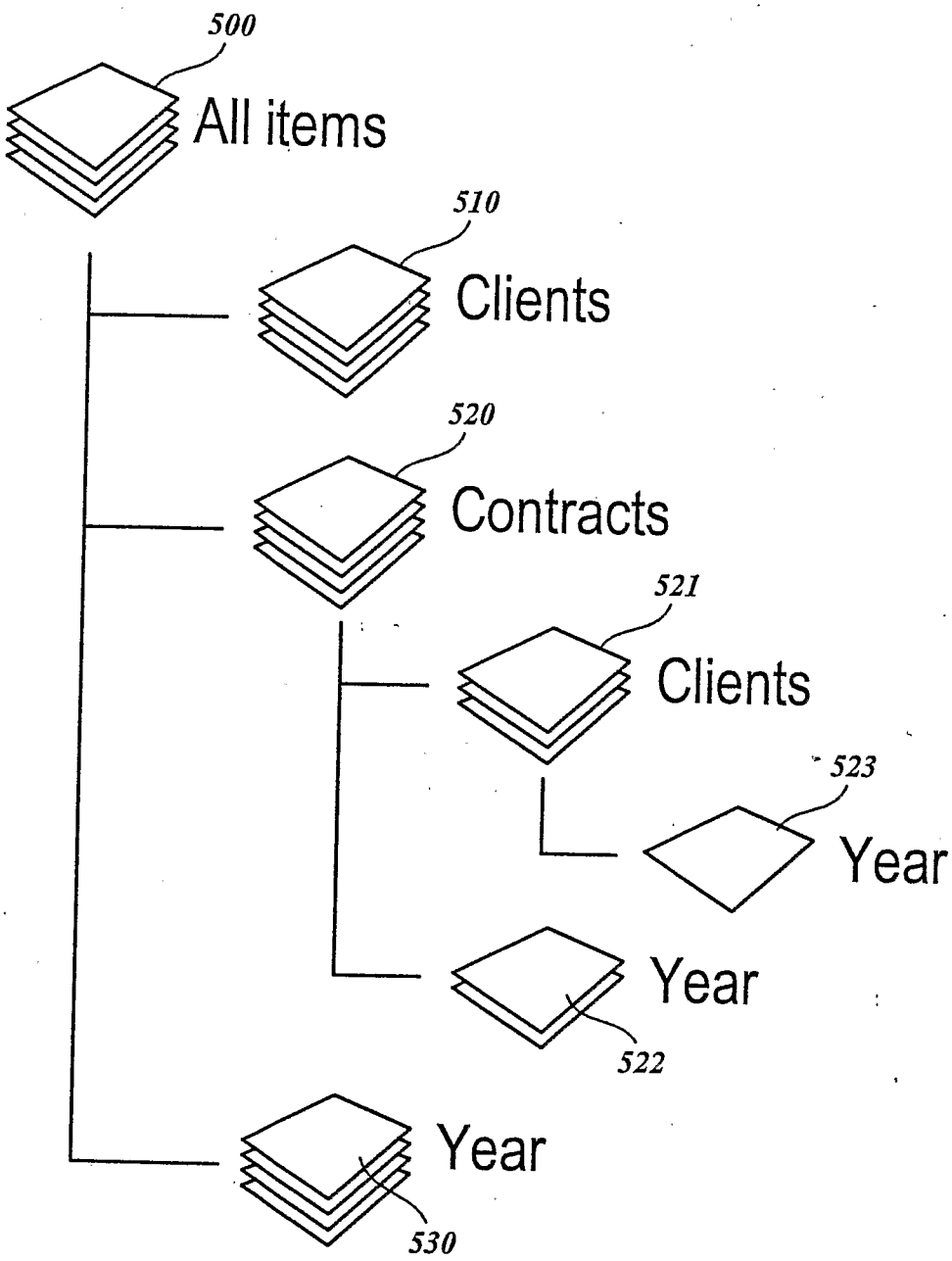

500
All items
510
Clients
520
Contracts
521
Clients
523
Year
Year
522
Year
530

Fig.9.

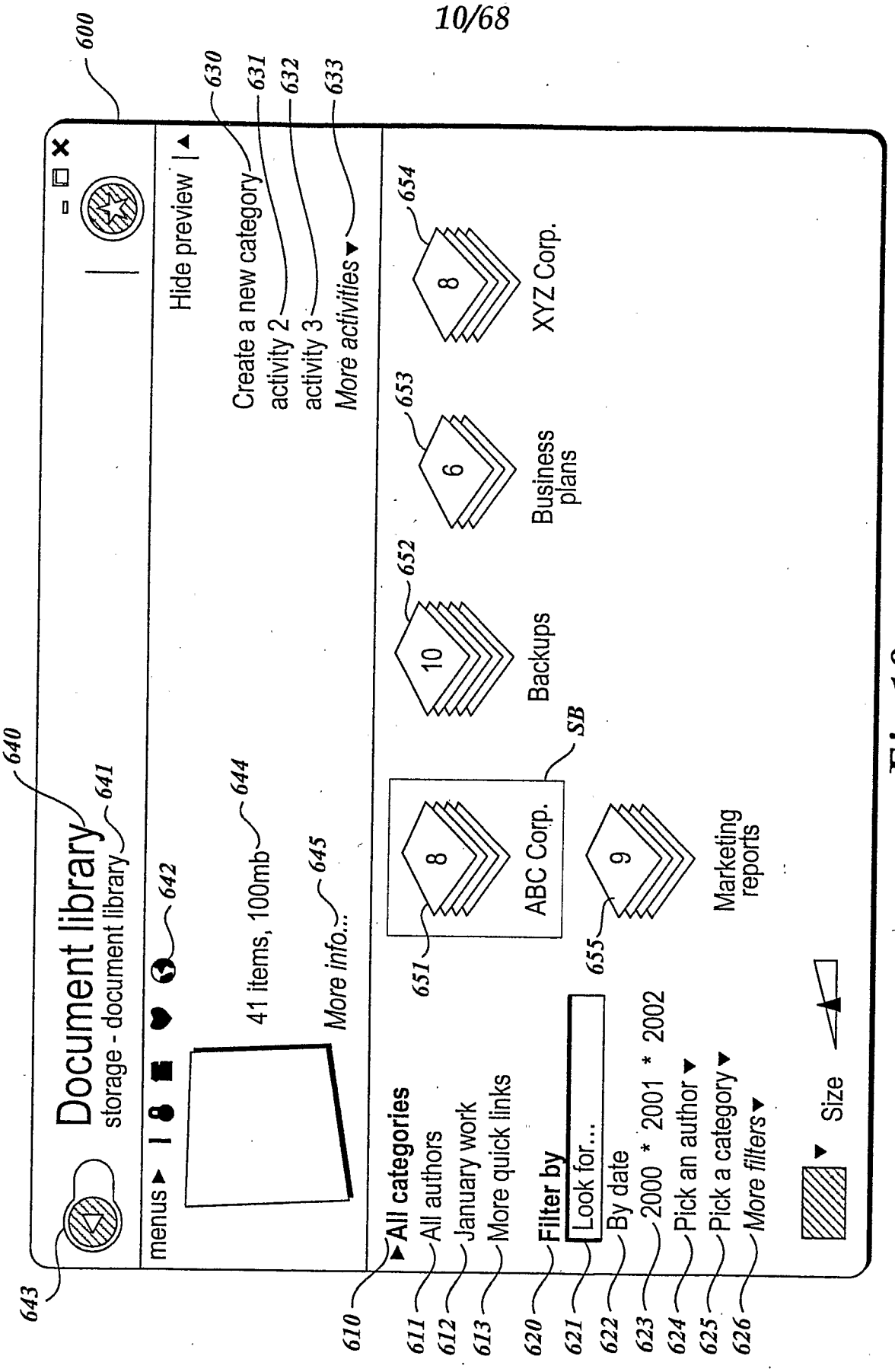

600
630
631
632
633
640
641
642
644
645
643
610
611
612
613
620
621
622
623
624
625
626
651
652
653
654
655
SB
Document library
storage - document library
menus
41 items, 100mb
More info...
Hide preview
Create a new category
activity 2
activity 3
More activities
All categories
All authors
January work
More quick links
Filter by
Look for...
By date
2000 * 2001 * 2002
Pick an author
Pick a category
More filters
Size
ABC Corp.
Backups
Business plans
XYZ Corp.
Marketing reports
8
10
6
8
9

Fig.10.

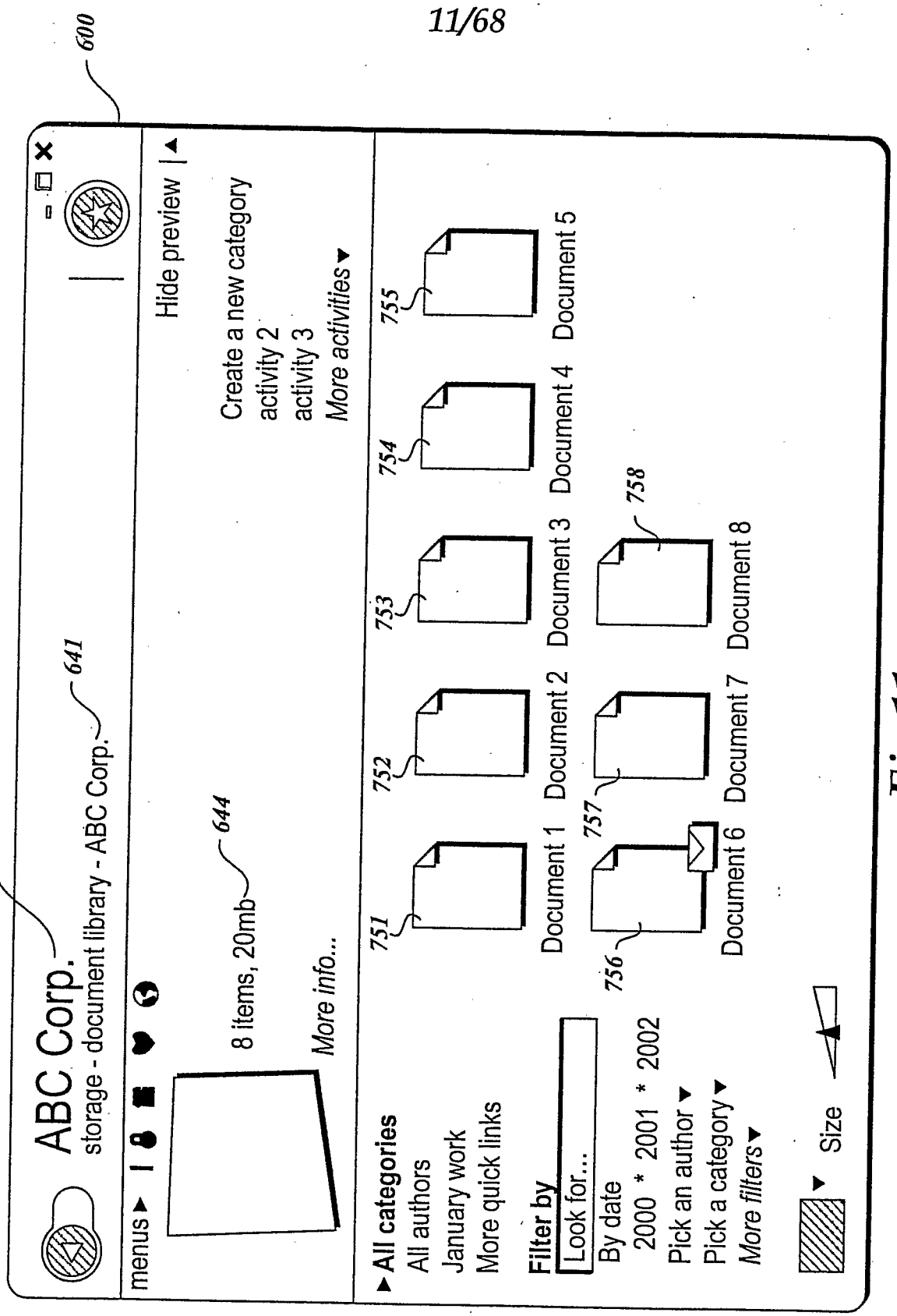

600
640
ABC Corp.
storage - document library - ABC Corp.
641
menus
Hide preview
644
8 items, 20mb
More info...
Create a new category
activity 2
activity 3
More activities
751
752
753
754
755
All categories
All authors
January work
More quick links
Filter by
Look for...
By date
2000 * 2001 * 2002
Pick an author
Pick a category
More filters
Size
Document 1
Document 2
Document 3
Document 4
Document 5
Document 6
Document 7
Document 8
756
757
758

Fig.11.

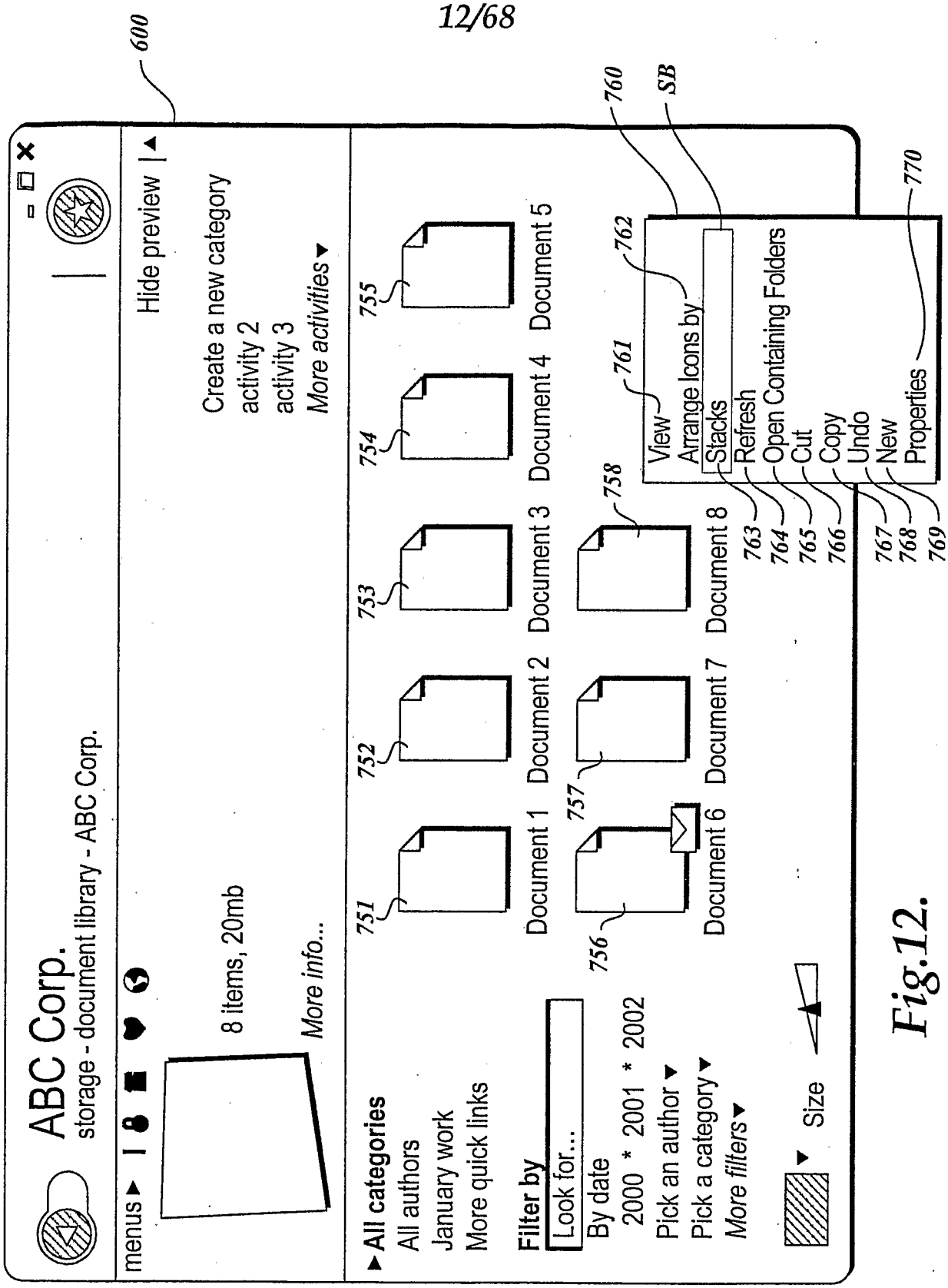

600
ABC Corp.
storage - document library - ABC Corp.
menus
Hide preview
8 items, 20mb
More info...
Create a new category
activity 2
activity 3
More activities
All categories
All authors
January work
More quick links
Filter by
Look for...
By date
2000 * 2001 * 2002
Pick an author
Pick a category
More filters
Size
751
752
753
754
755
Document 1
Document 2
Document 3
Document 4
Document 5
756
757
758
Document 6
Document 7
Document 8
760
SB
761
762
View
Arrange Icons by
Stacks
Refresh
Open Containing Folders
Cut
Copy
Undo
New
Properties
763
764
765
766
767
768
769
770

Fig.12.

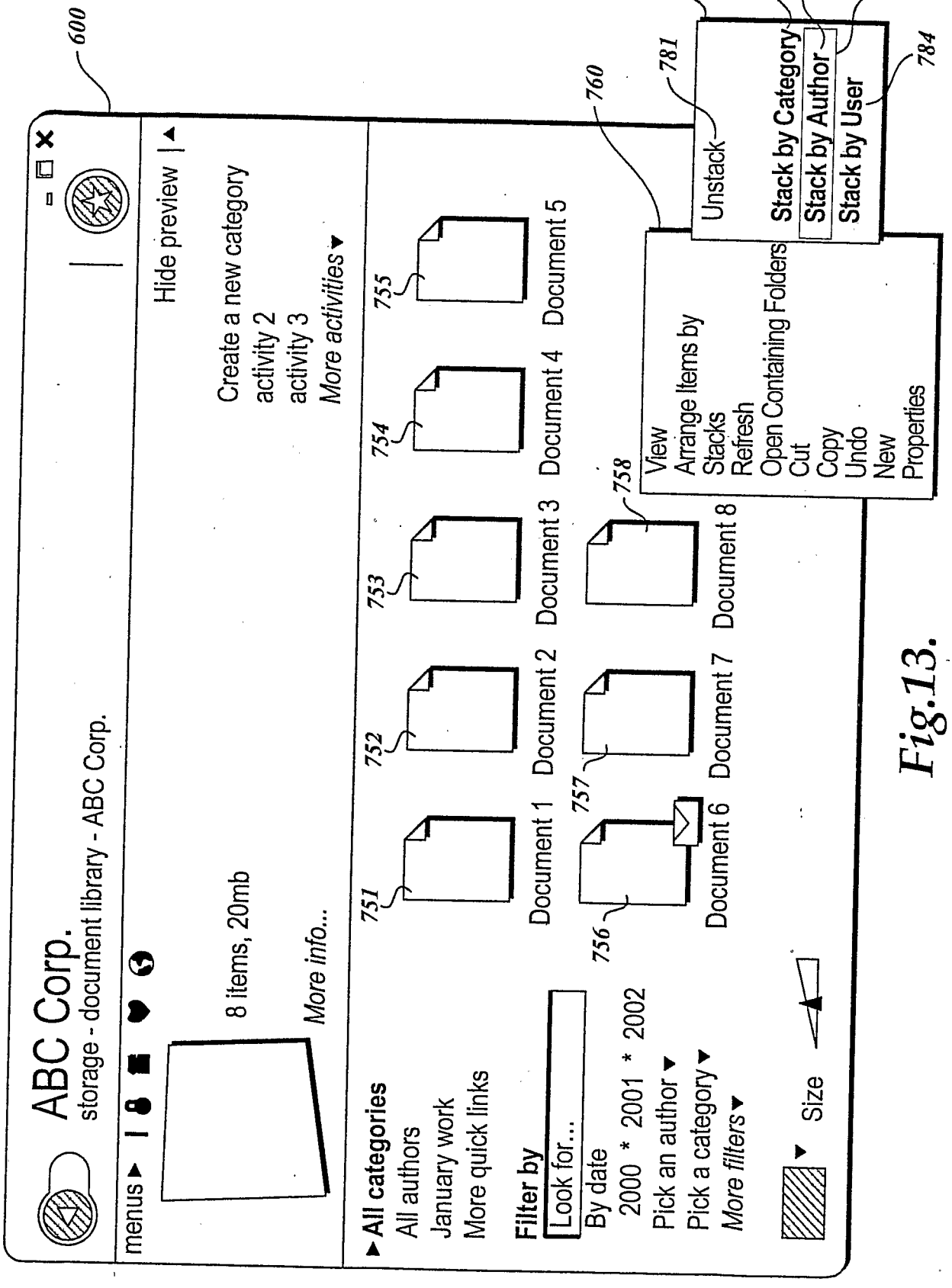

600
ABC Corp.
storage - document library - ABC Corp.
menus
Hide preview
8 items, 20mb
More info...
Create a new category
activity 2
activity 3
More activities
All categories
All authors
January work
More quick links
Filter by
Look for...
By date
2000 * 2001 * 2002
Pick an author
Pick a category
More filters
Size
751
752
753
754
755
Document 1
Document 2
Document 3
Document 4
Document 5
756
757
758
Document 6
Document 7
Document 8
760
View
Arrange Items by
Stacks
Refresh
Open Containing Folders
Cut
Copy
Undo
New
Properties
781
Unstack
780
782
783
SB
784
Stack by Category
Stack by Author
Stack by User

Fig.13.

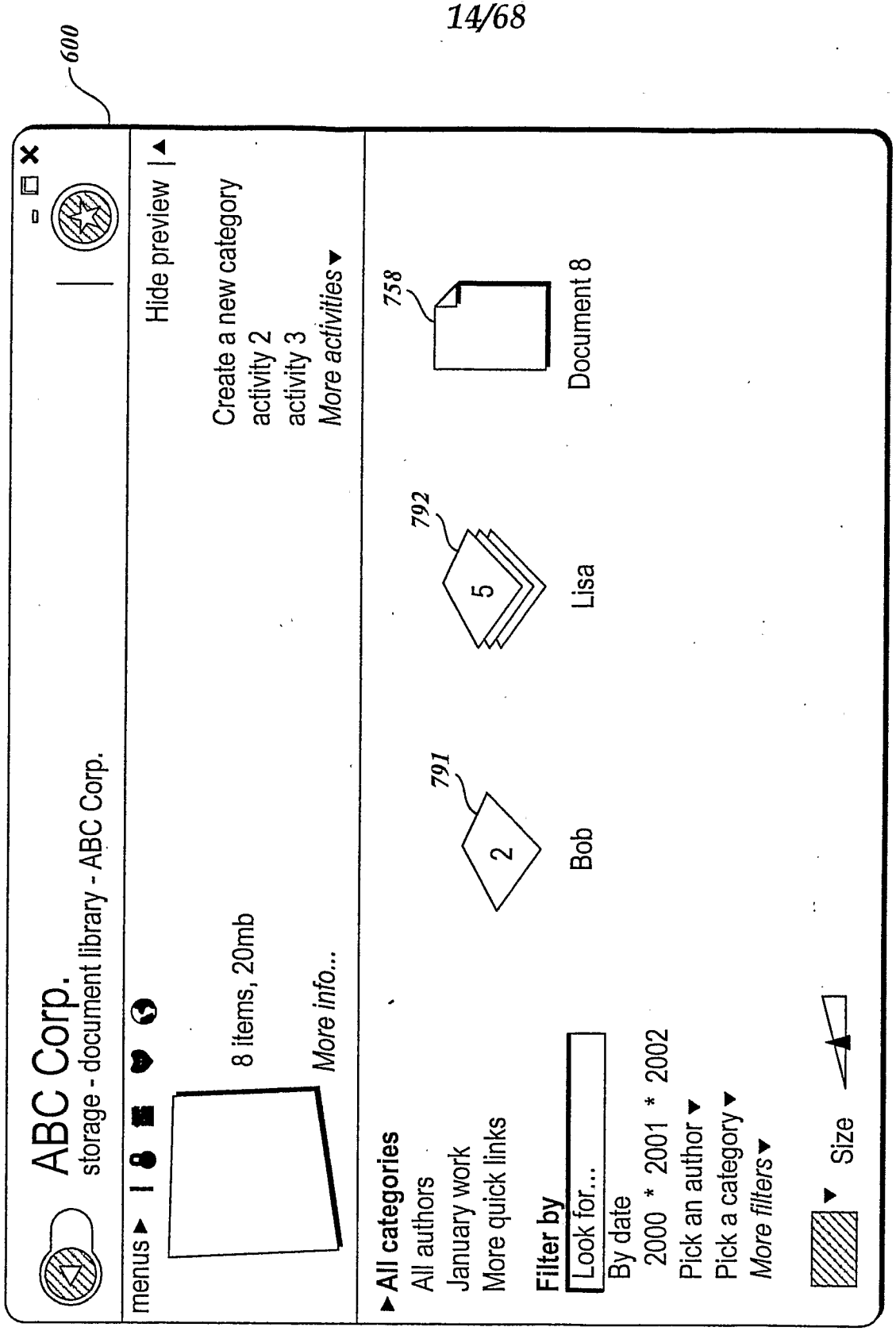

600
ABC Corp.
storage - document library - ABC Corp.
menus
Hide preview
8 items, 20mb
More info...
Create a new category
activity 2
activity 3
More activities
All categories
All authors
January work
More quick links
Filter by
Look for...
By date
2000 * 2001 * 2002
Pick an author
Pick a category
More filters
Size
791
2
Bob
792
5
Lisa
758
Document 8

Fig.14.

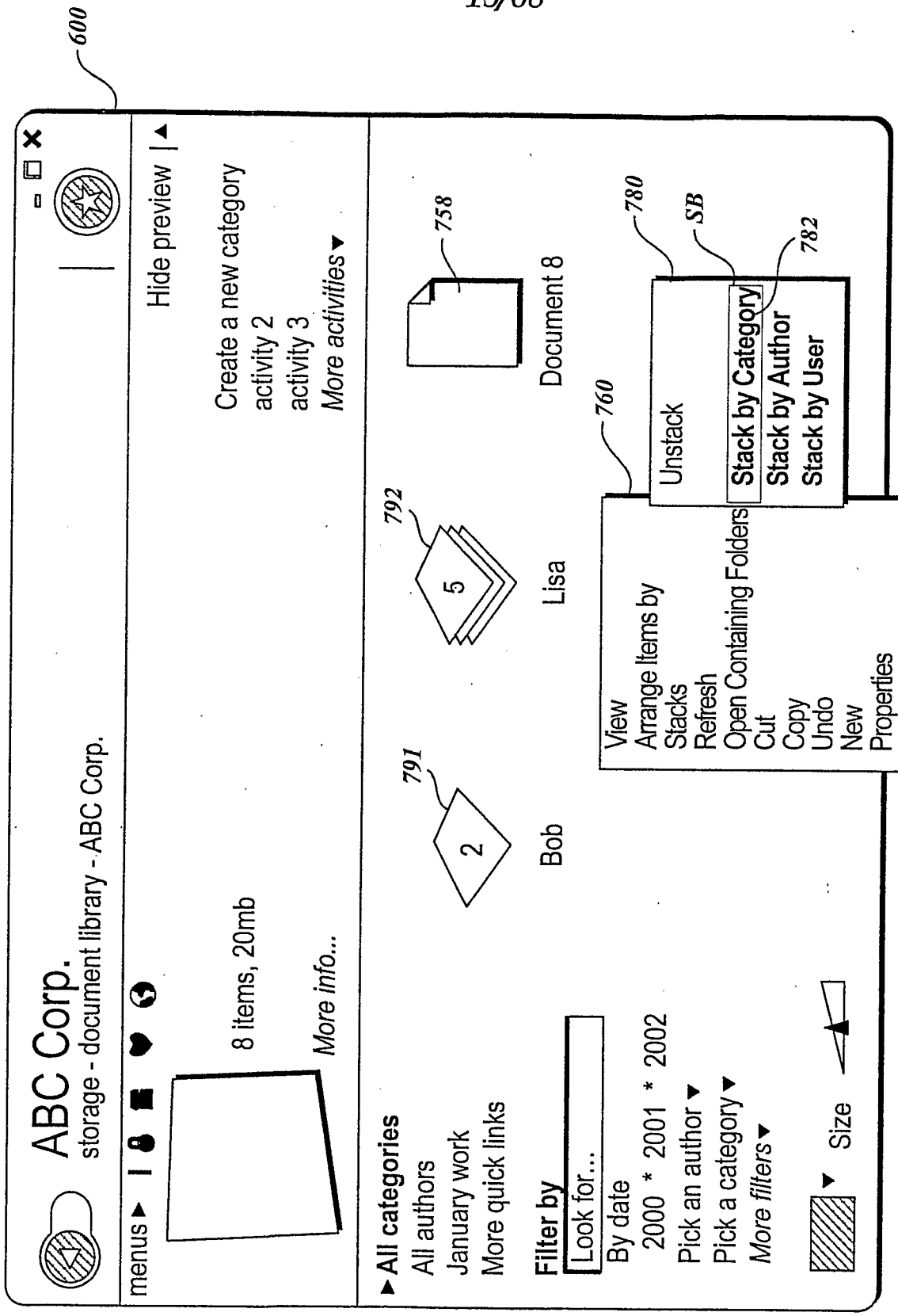

600
ABC Corp.
storage - document library - ABC Corp.
menus
Hide preview
8 items, 20mb
More info...
Create a new category
activity 2
activity 3
More activities
All categories
All authors
January work
More quick links
Filter by
Look for...
By date
2000 * 2001 * 2002
Pick an author
Pick a category
More filters
Size
791
2
Bob
792
5
Lisa
758
Document 8
760
780
SB
782
View
Arrange Items by
Stacks
Refresh
Open Containing Folders
Cut
Copy
Undo
New
Properties
Unstack
Stack by Category
Stack by Author
Stack by User

Fig.15.

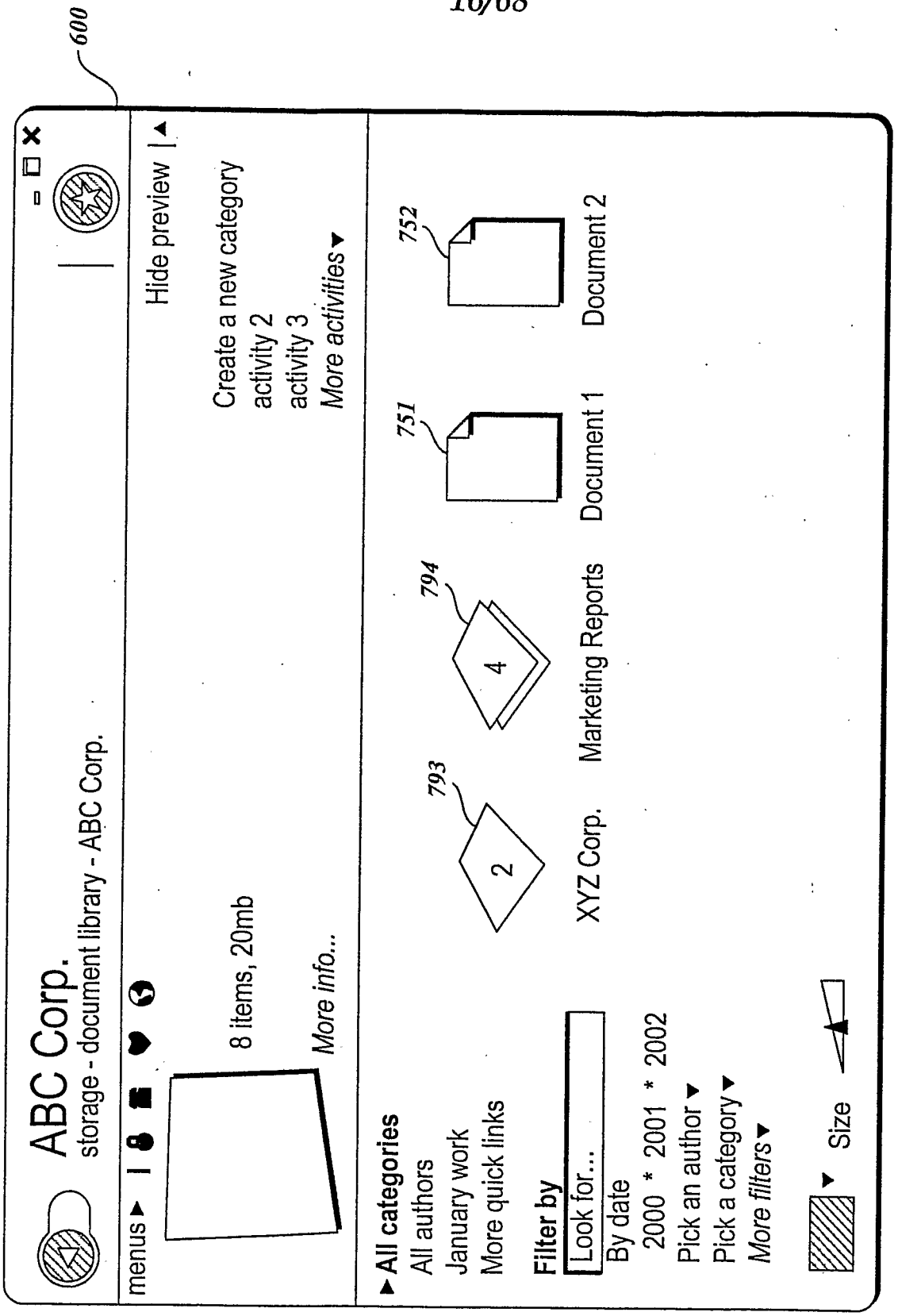

600
ABC Corp.
storage - document library - ABC Corp.
menus
Hide preview
8 items, 20mb
More info...
Create a new category
activity 2
activity 3
More activities
All categories
All authors
January work
More quick links
Filter by
Look for...
By date
2000 * 2001 * 2002
Pick an author
Pick a category
More filters
Size
793
2
XYZ Corp.
794
4
Marketing Reports
751
Document 1
752
Document 2

Fig.16.

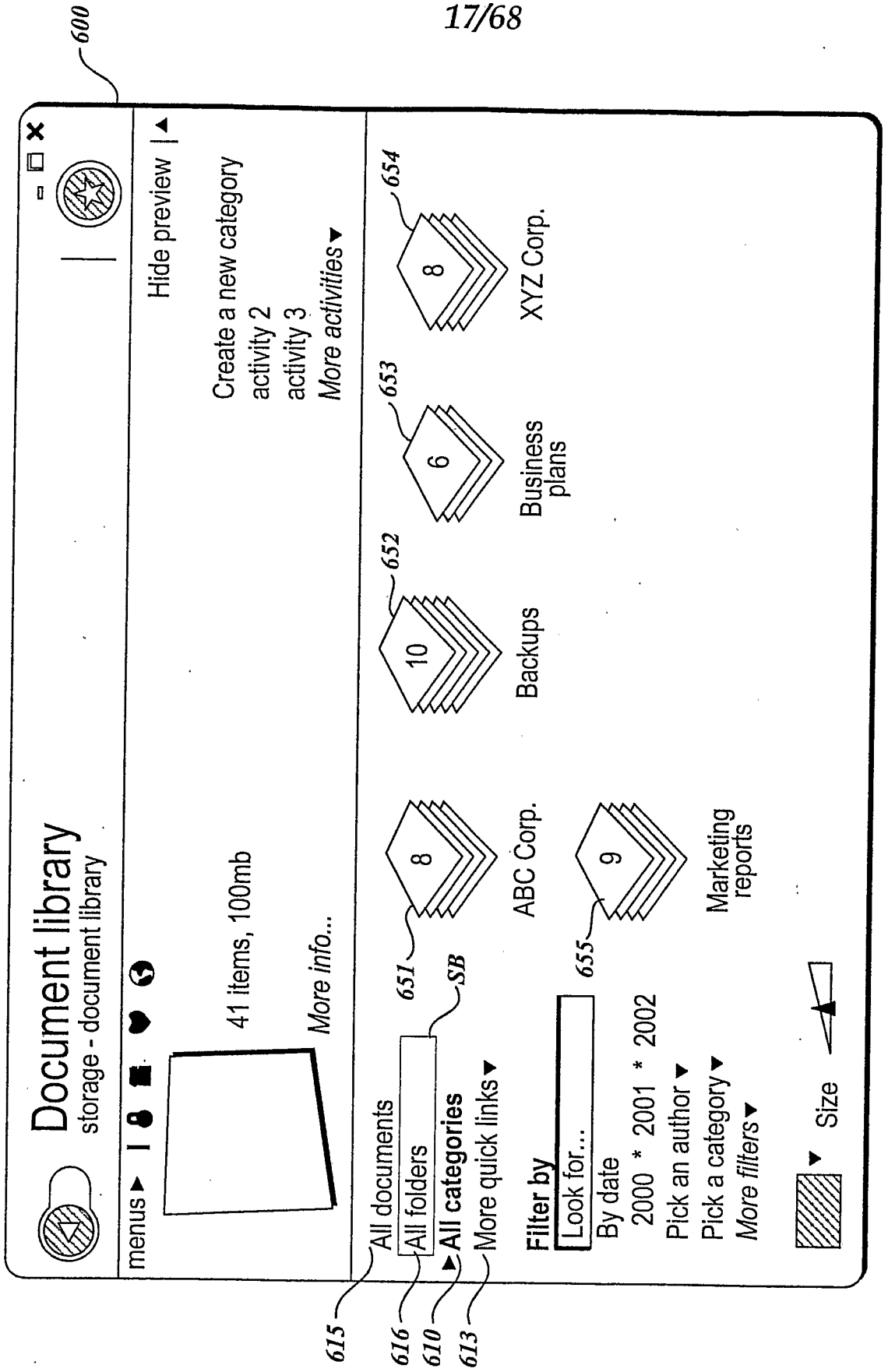

600
Document library
storage - document library
menus
Hide preview
41 items, 100mb
More info...
Create a new category
activity 2
activity 3
More activities
All documents
All folders
All categories
More quick links
Filter by
Look for...
By date
2000 * 2001 * 2002
Pick an author
Pick a category
More filters
Size
615
616
610
613
651
SB
655
8
ABC Corp.
9
Marketing reports
652
10
Backups
653
6
Business plans
654
8
XYZ Corp.

Fig.17.

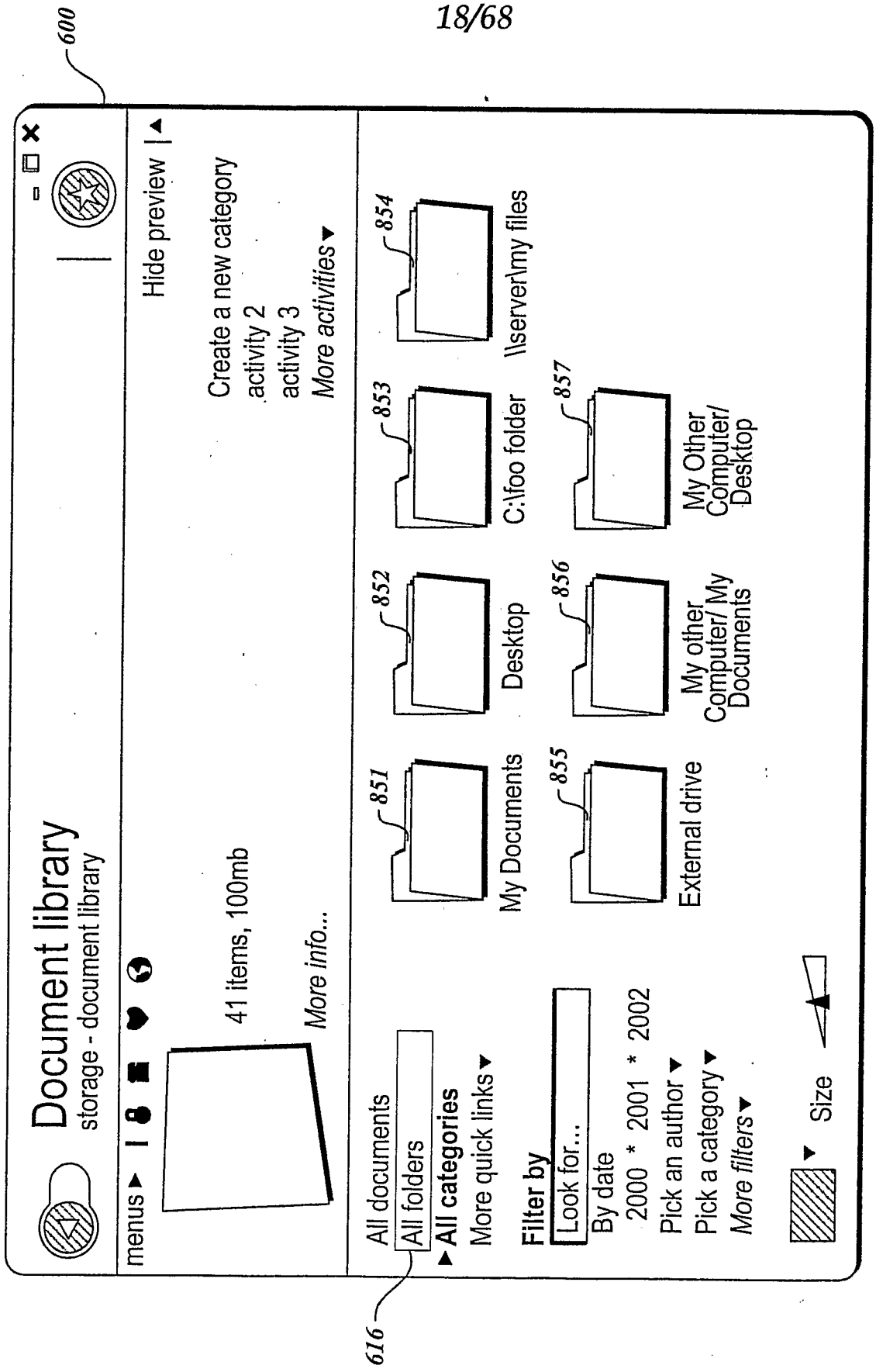

600
Document library
storage - document library
menus
Hide preview
41 items, 100mb
More info...
Create a new category
activity 2
activity 3
More activities
All documents
All folders
All categories
More quick links
Filter by
Look for...
By date
2000 * 2001 * 2002
Pick an author
Pick a category
More filters
Size
851
My Documents
852
Desktop
853
C:\foo folder
854
\\server\my files
855
External drive
856
My other Computer/ My Documents
857
My Other Computer/ Desktop
616

Fig.18.

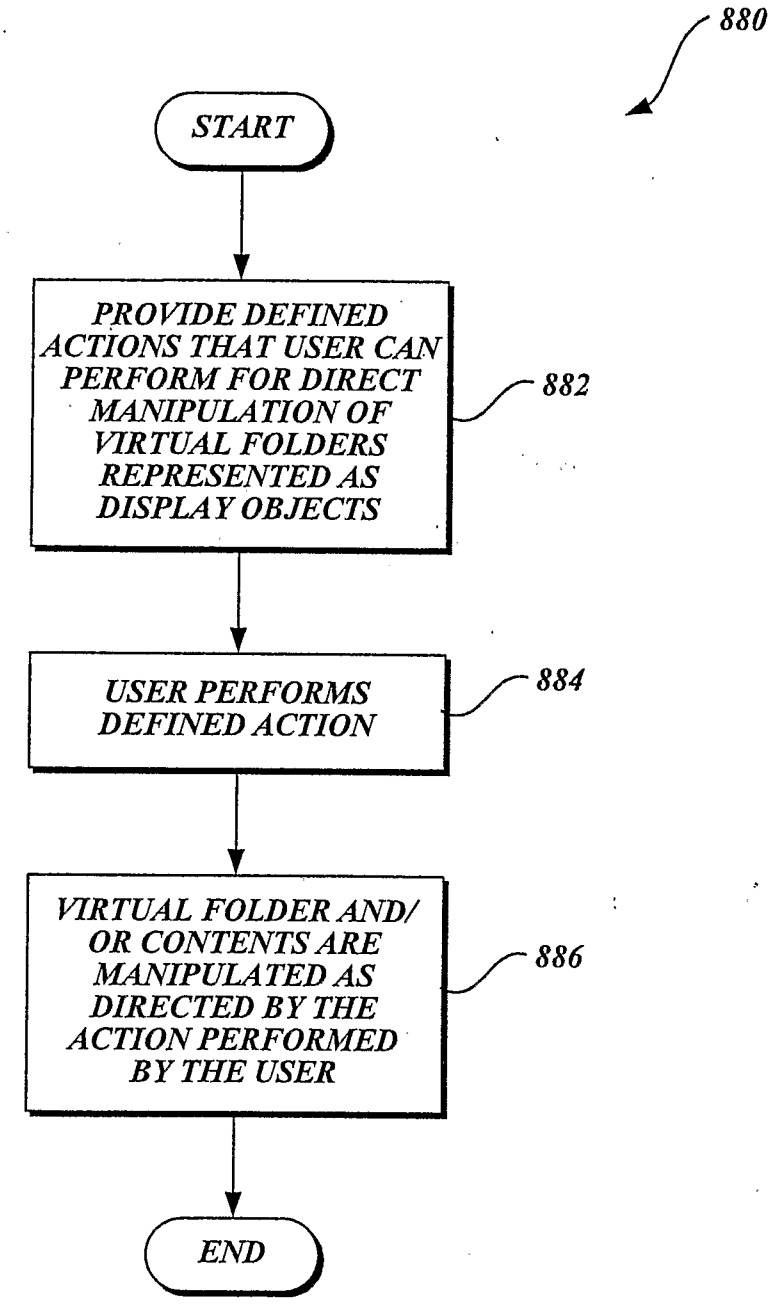

880
START
PROVIDE DEFINED ACTIONS THAT USER CAN PERFORM FOR DIRECT MANIPULATION OF VIRTUAL FOLDERS REPRESENTED AS DISPLAY OBJECTS
882
USER PERFORMS DEFINED ACTION
884
VIRTUAL FOLDER AND/ OR CONTENTS ARE MANIPULATED AS DIRECTED BY THE ACTION PERFORMED BY THE USER
886
END

Fig.19.

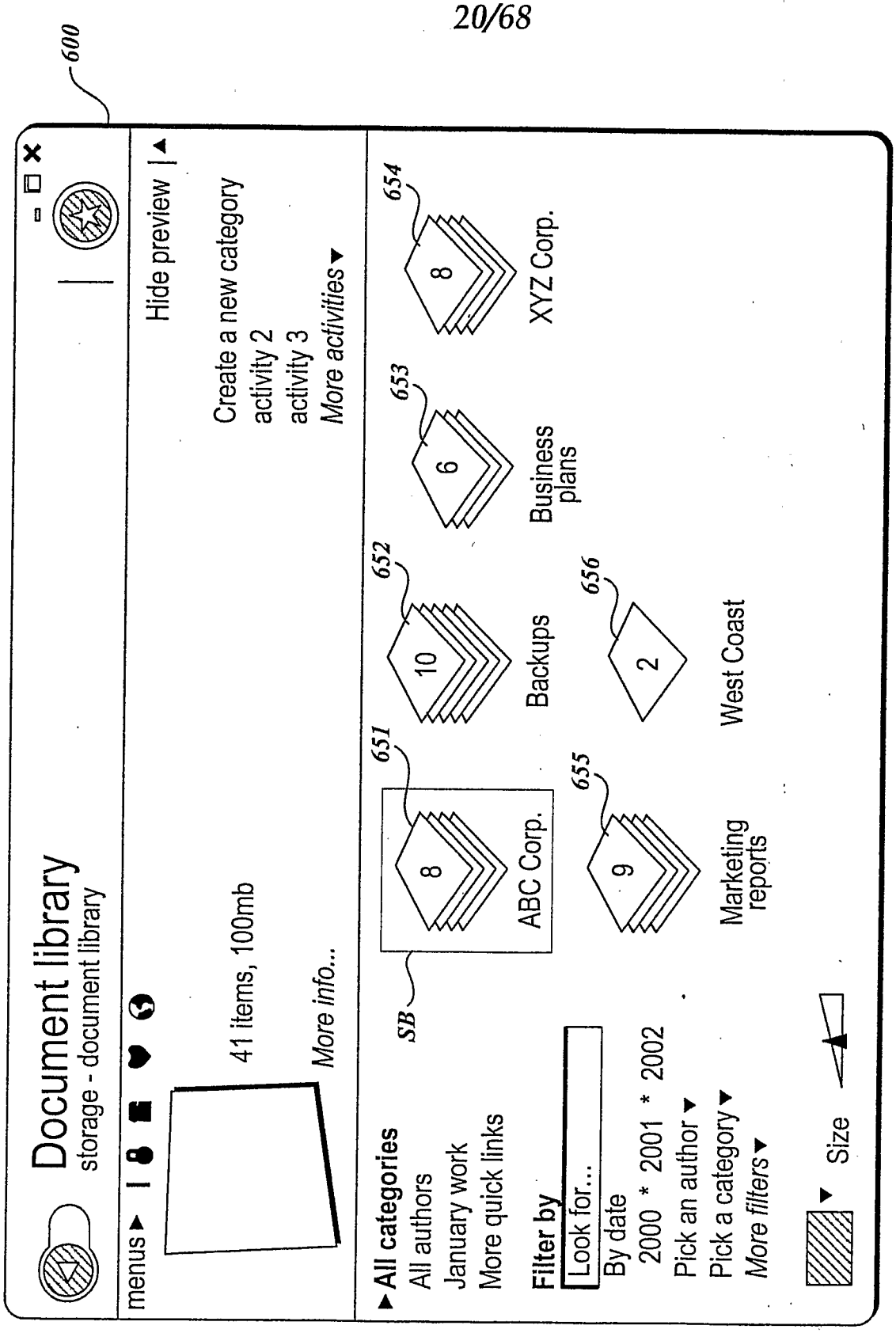

600
Document library
storage - document library
menus
Hide preview
41 items, 100mb
More info...
Create a new category
activity 2
activity 3
More activities
All categories
All authors
January work
More quick links
Filter by
Look for...
By date
2000 * 2001 * 2002
Pick an author
Pick a category
More filters
Size
SB
651
8
ABC Corp.
652
10
Backups
653
6
Business plans
654
8
XYZ Corp.
655
9
Marketing reports
656
2
West Coast

Fig.20.

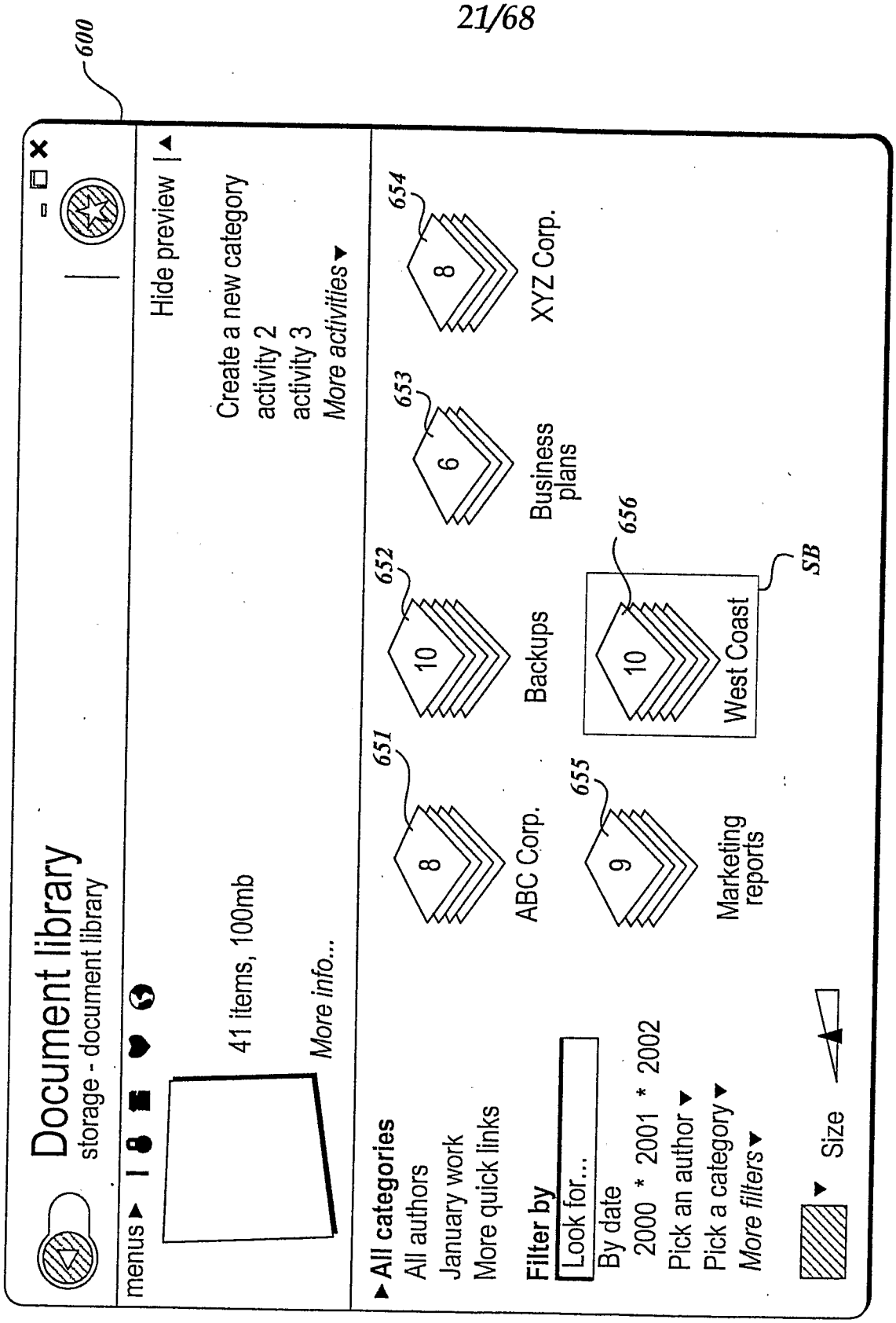

600
Document library
storage - document library
menus
Hide preview
41 items, 100mb
More info...
Create a new category
activity 2
activity 3
More activities
All categories
All authors
January work
More quick links
Filter by
Look for...
By date
2000 * 2001 * 2002
Pick an author
Pick a category
More filters
Size
651
8
ABC Corp.
652
10
Backups
653
6
Business plans
654
8
XYZ Corp.
655
9
Marketing reports
656
10
West Coast
SB

Fig.21.

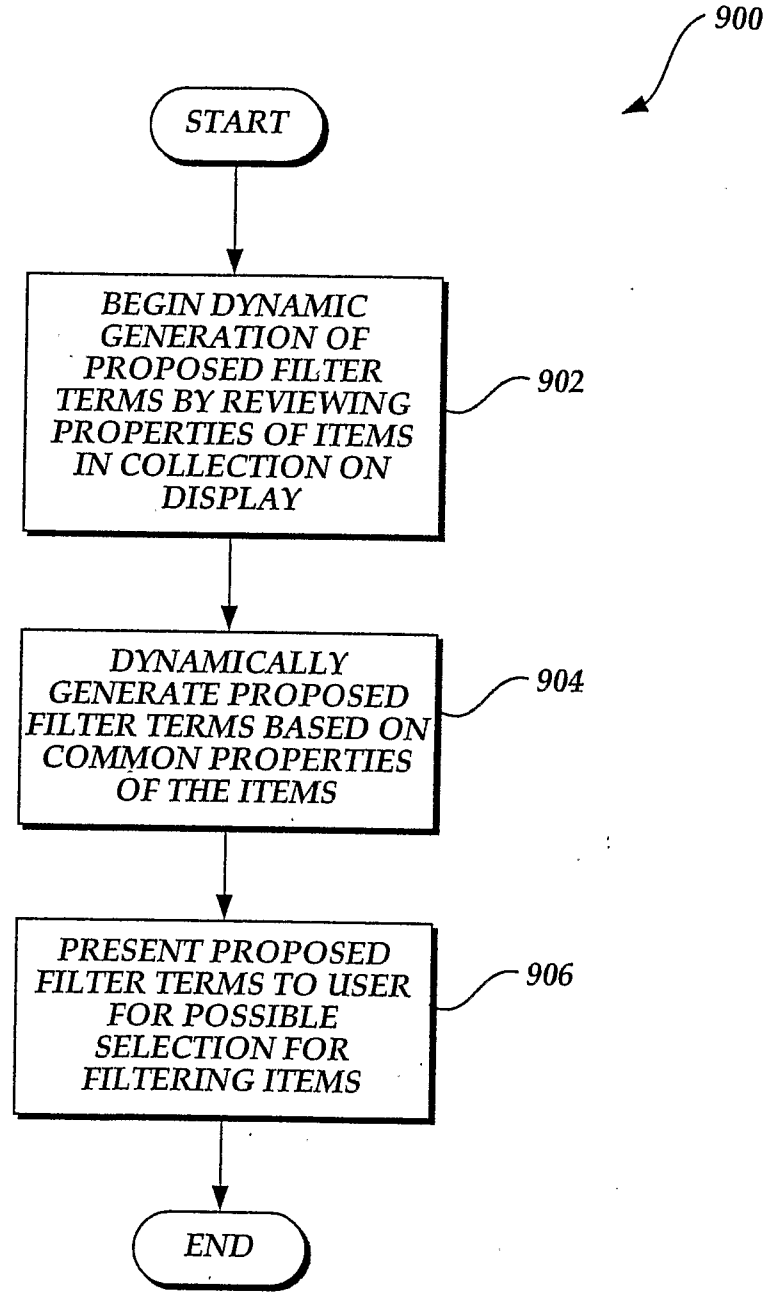

900
START
BEGIN DYNAMIC GENERATION OF PROPOSED FILTER TERMS BY REVIEWING PROPERTIES OF ITEMS IN COLLECTION ON DISPLAY
902
DYNAMICALLY GENERATE PROPOSED FILTER TERMS BASED ON COMMON PROPERTIES OF THE ITEMS
904
PRESENT PROPOSED FILTER TERMS TO USER FOR POSSIBLE SELECTION FOR FILTERING ITEMS
906
END

Fig.22.

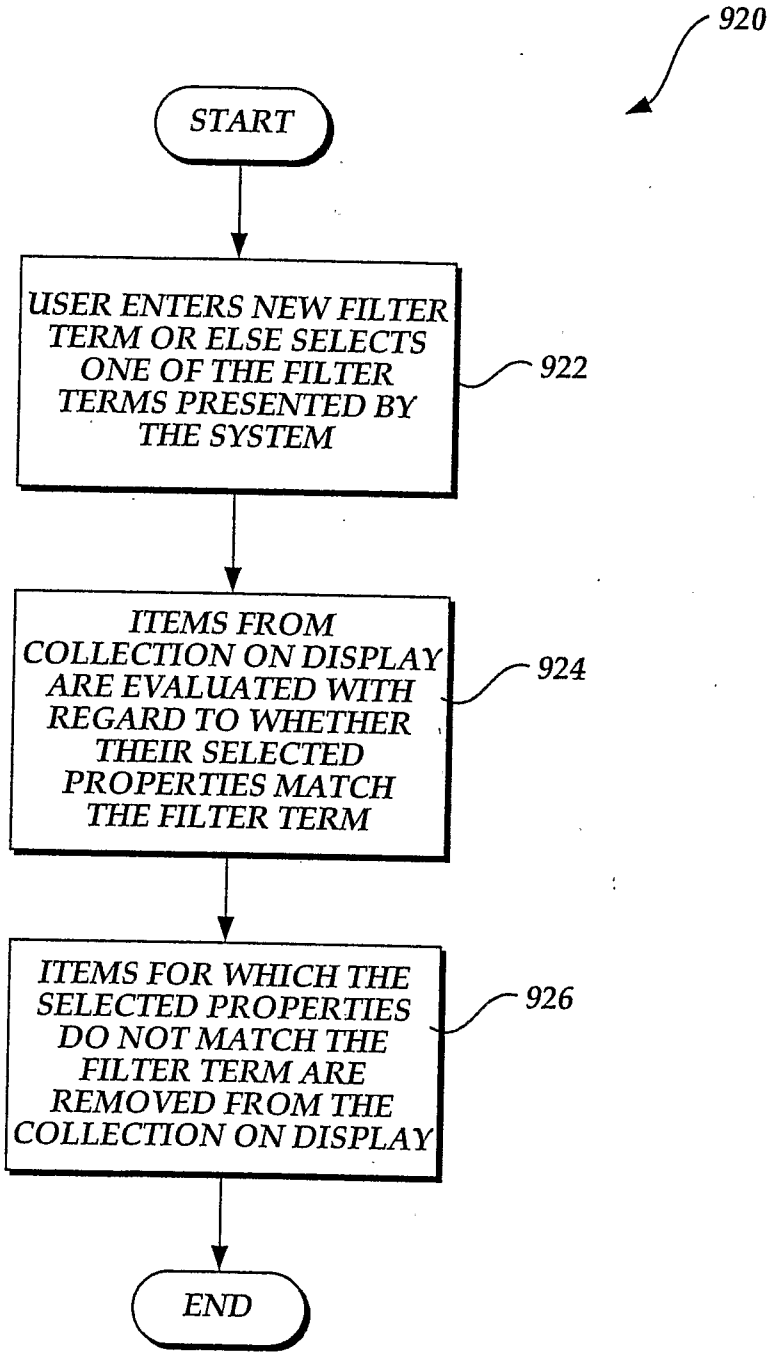

920
START
USER ENTERS NEW FILTER TERM OR ELSE SELECTS ONE OF THE FILTER TERMS PRESENTED BY THE SYSTEM
922
ITEMS FROM COLLECTION ON DISPLAY ARE EVALUATED WITH REGARD TO WHETHER THEIR SELECTED PROPERTIES MATCH THE FILTER TERM
924
ITEMS FOR WHICH THE SELECTED PROPERTIES DO NOT MATCH THE FILTER TERM ARE REMOVED FROM THE COLLECTION ON DISPLAY
926
END

Fig.23.

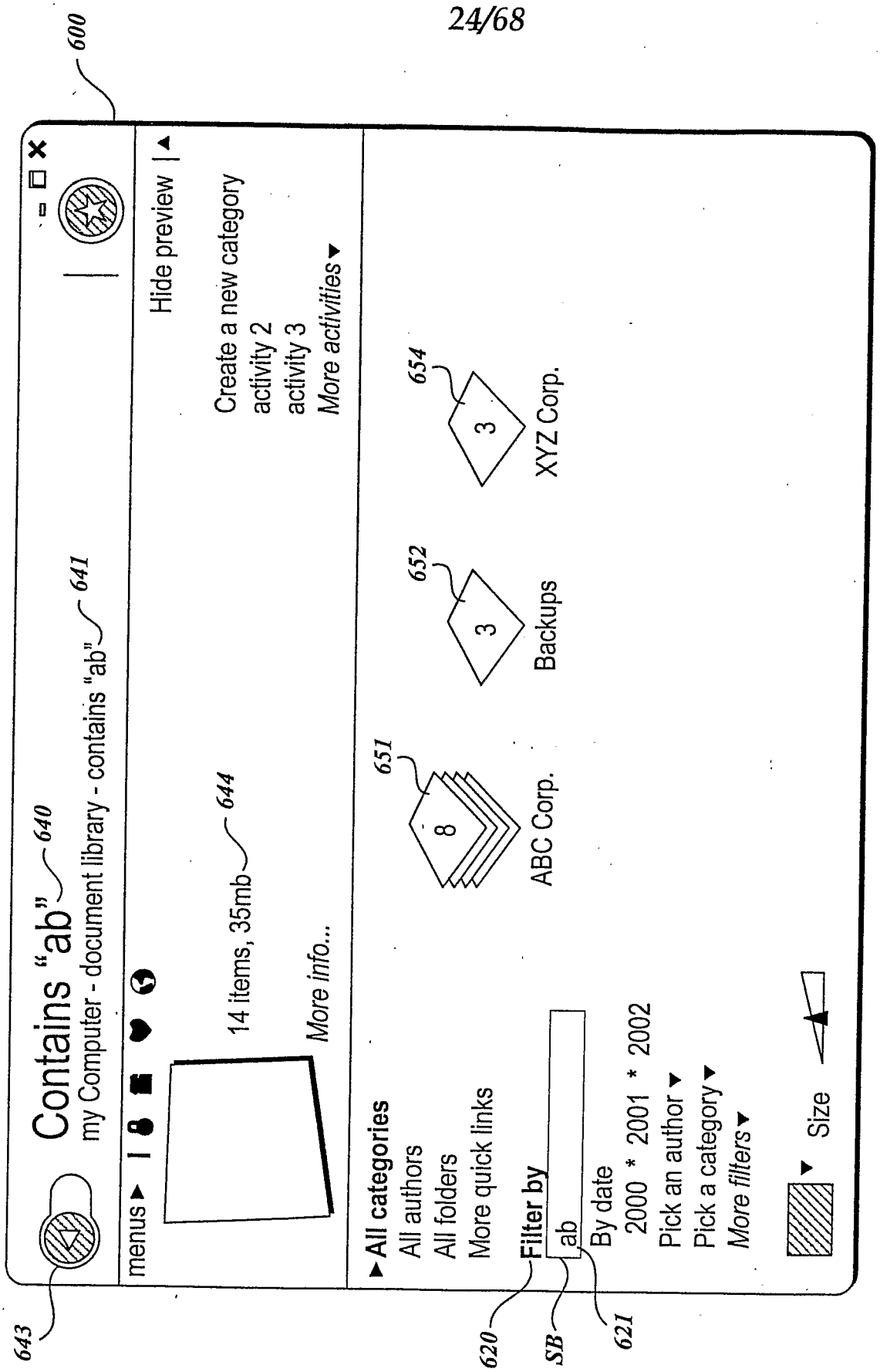

600
Contains "ab"
640
my Computer - document library - contains "ab"
641
menus
Hide preview
14 items, 35mb
644
More info...
Create a new category
activity 2
activity 3
More activities
All categories
All authors
All folders
More quick links
Filter by
ab
By date
2000 * 2001 * 2002
Pick an author
Pick a category
More filters
Size
651
8
ABC Corp.
652
3
Backups
654
3
XYZ Corp.
643
620
SB
621

Fig.24.

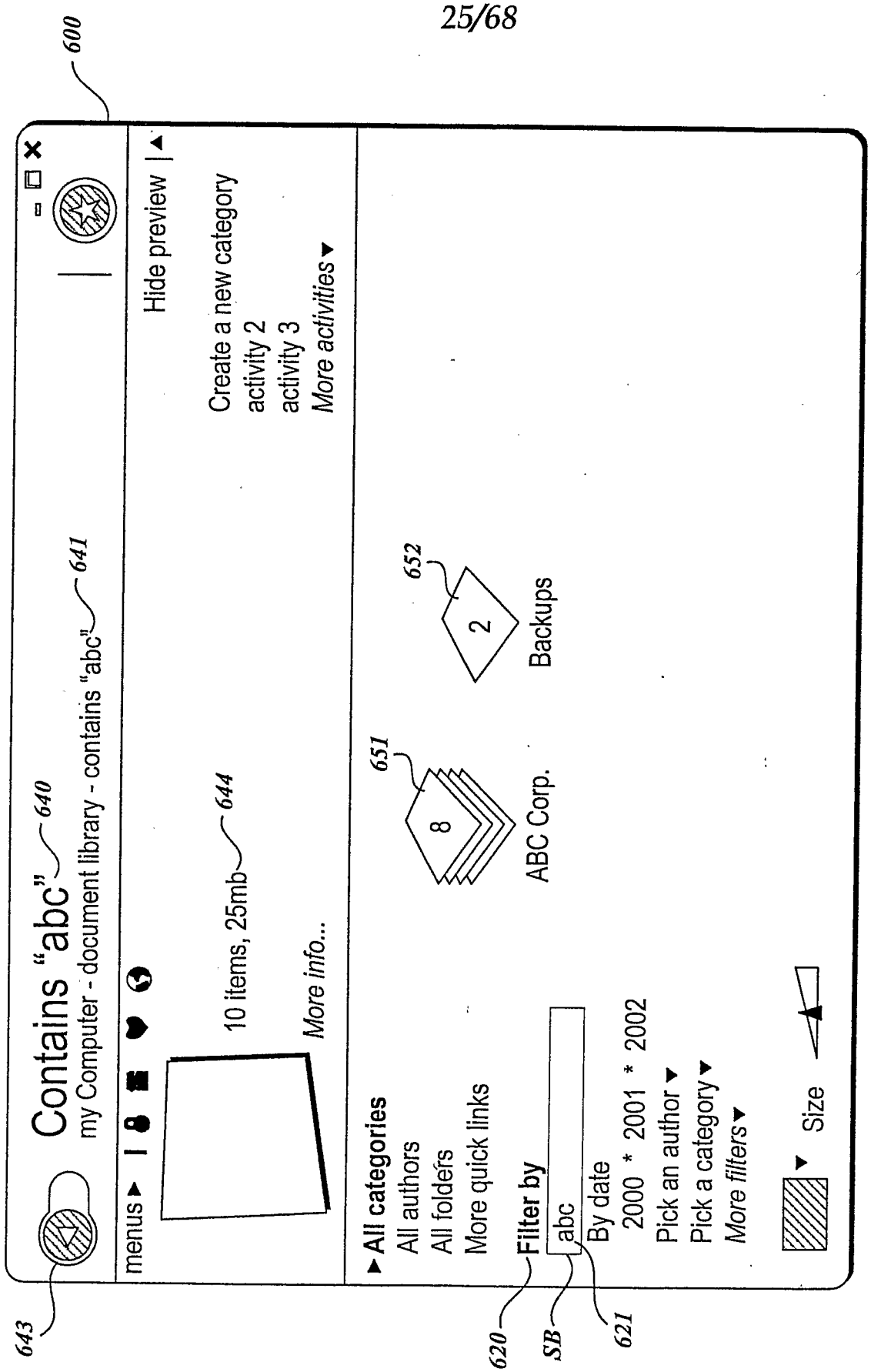

600
Contains "abc"
640
my Computer - document library - contains "abc"
641
Hide preview
menus
Create a new category
activity 2
activity 3
More activities
10 items, 25mb
644
More info...
651
652
8
2
Backups
ABC Corp.
All categories
All authors
All folders
More quick links
Filter by
abc
By date
2000 * 2001 * 2002
Pick an author
Pick a category
More filters
Size
643
620
SB
621

Fig.25.

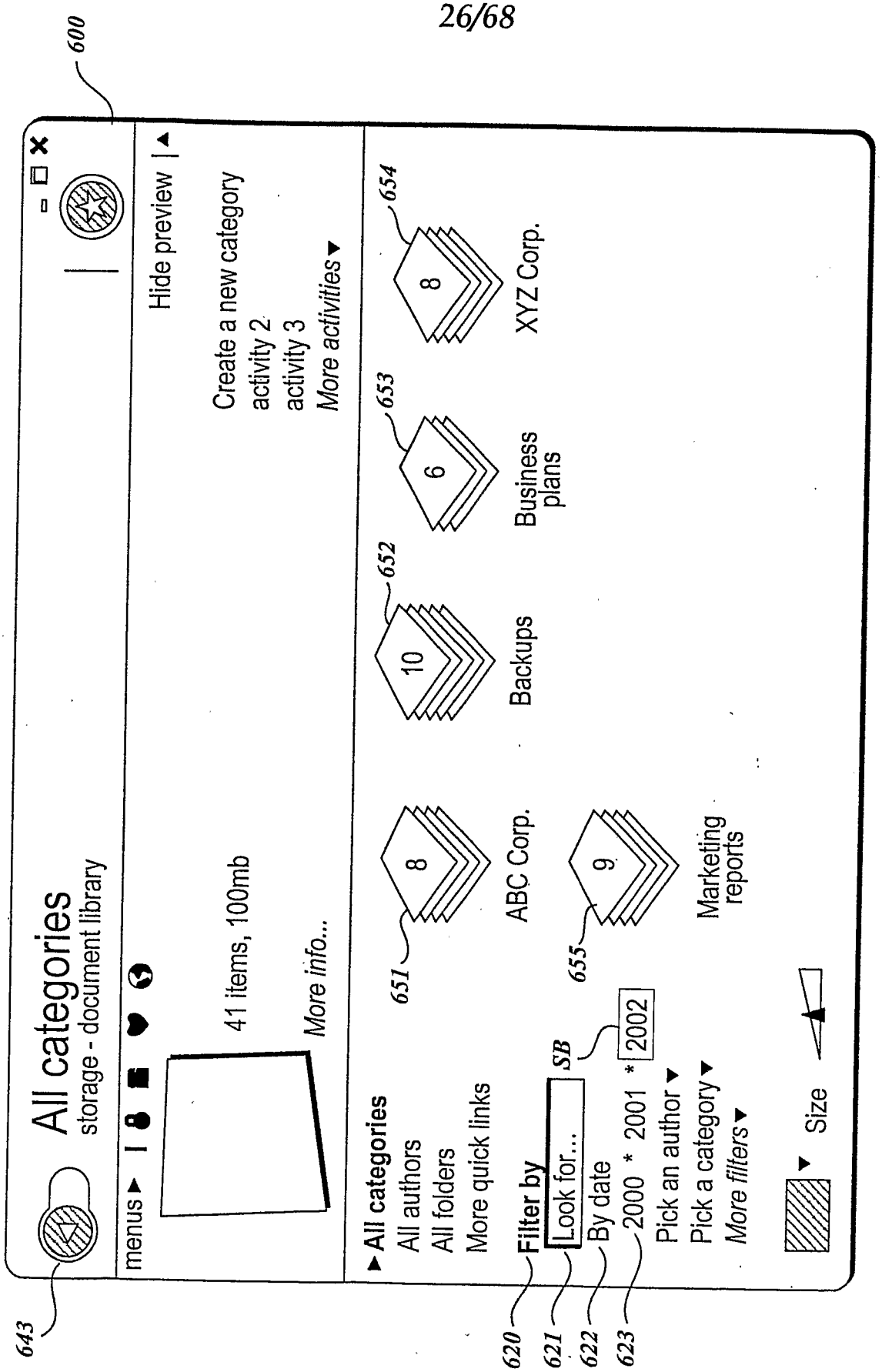

600
643
All categories
storage - document library
menus
Hide preview
41 items, 100mb
More info...
Create a new category
activity 2
activity 3
More activities
All categories
All authors
All folders
More quick links
Filter by
Look for...
SB
By date
2000 * 2001 * 2002
Pick an author
Pick a category
More filters
Size
651
8
ABC Corp.
652
10
Backups
653
6
Business plans
654
8
XYZ Corp.
655
9
Marketing reports
620
621
622
623

Fig.26.

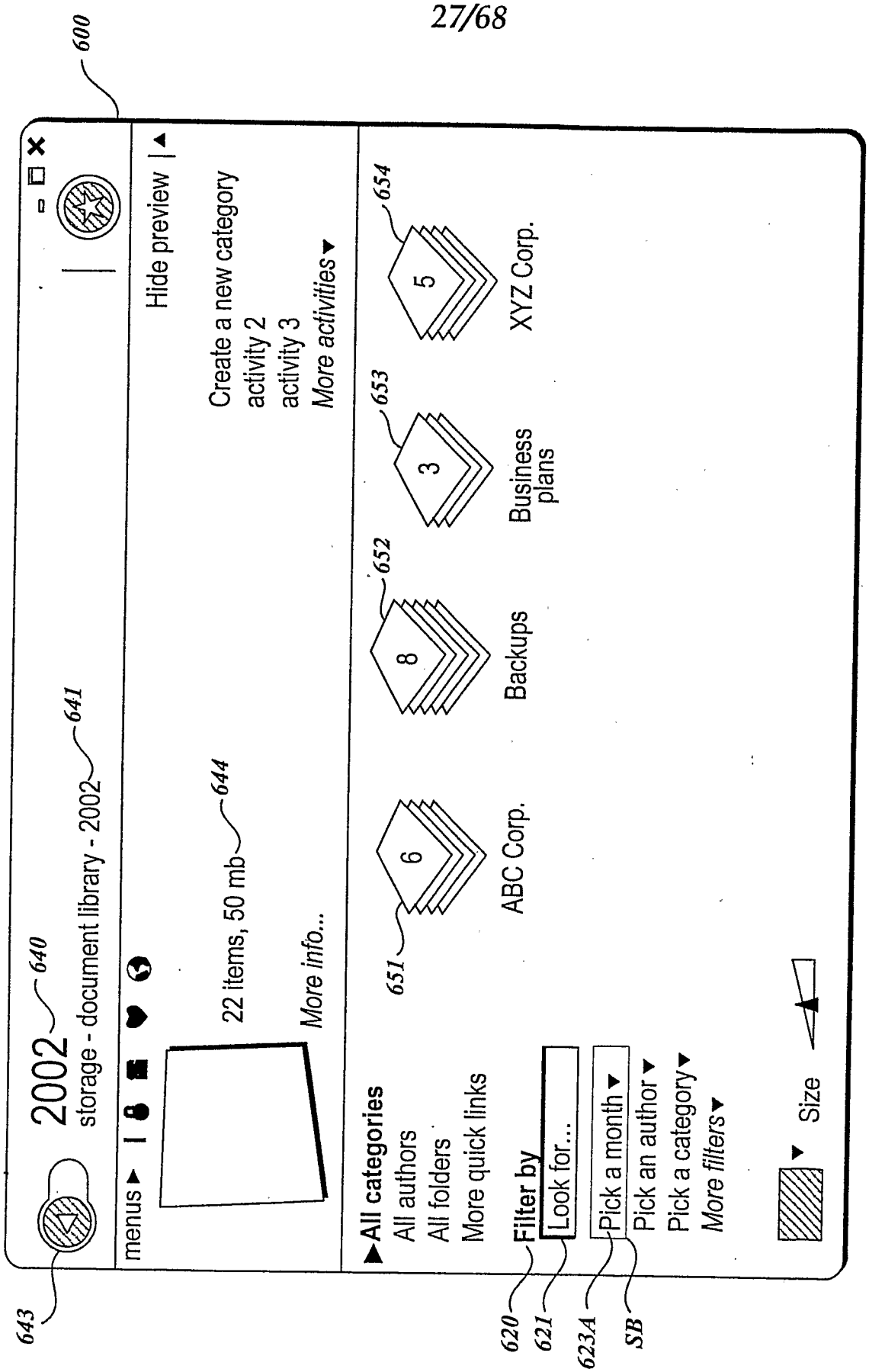

600
643
640
2002
storage - document library - 641
menus
Hide preview
Create a new category
activity 2
activity 3
More activities
22 items, 50 mb
644
More info...
654
653
652
651
6
ABC Corp.
8
Backups
3
Business plans
5
XYZ Corp.
All categories
All authors
All folders
More quick links
Filter by
620
Look for...
621
Pick a month
623A
Pick an author
SB
Pick a category
More filters
Size

Fig.27.

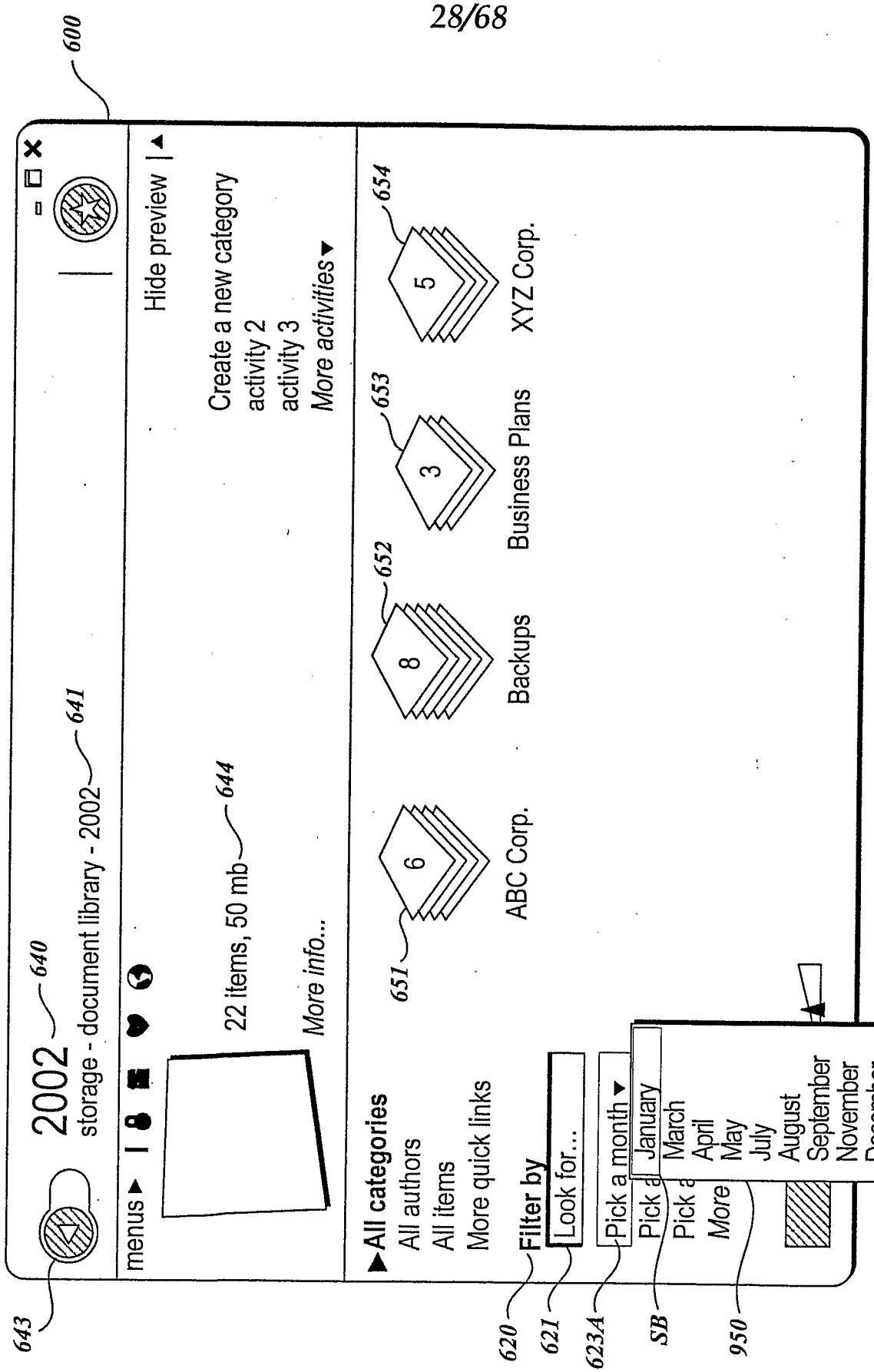

600
2002
640
storage - document library - 2002
641
menus
Hide preview
Create a new category
activity 2
activity 3
More activities
22 items, 50 mb
644
More info...
651
6
ABC Corp.
652
8
Backups
653
3
Business Plans
654
5
XYZ Corp.
All categories
All authors
All items
More quick links
Filter by
Look for...
Pick a month
January
March
April
May
July
August
September
November
December
643
620
621
623A
SB
950

Fig.28.

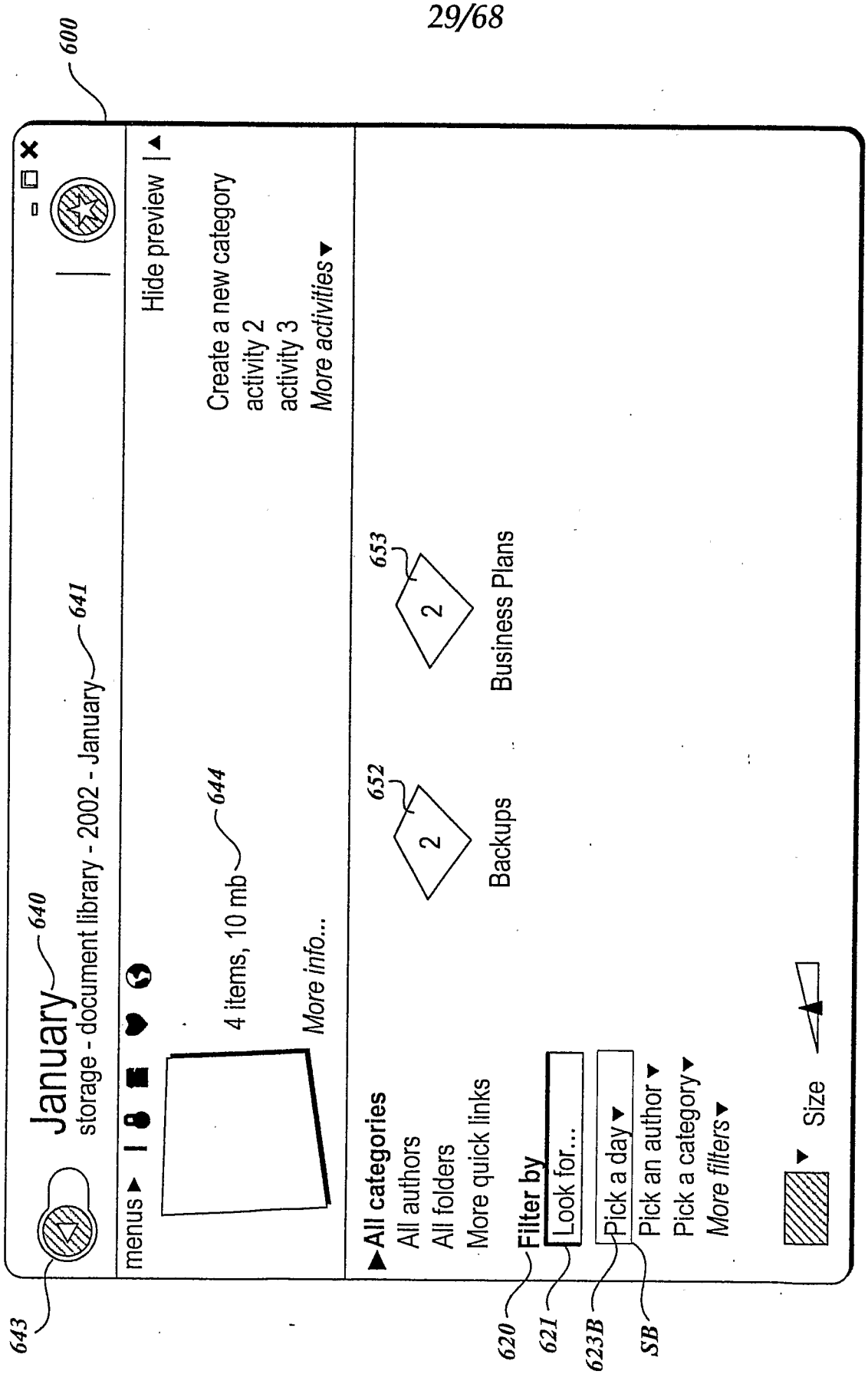

600
643
640
January
storage - document library - 2002 - January
641
menus
Hide preview
Create a new category
activity 2
activity 3
More activities
4 items, 10 mb
644
More info...
652
2
Backups
653
2
Business Plans
All categories
All authors
All folders
More quick links
Filter by
Look for...
Pick a day
Pick an author
Pick a category
More filters
Size
620
621
623B
SB

Fig.29.

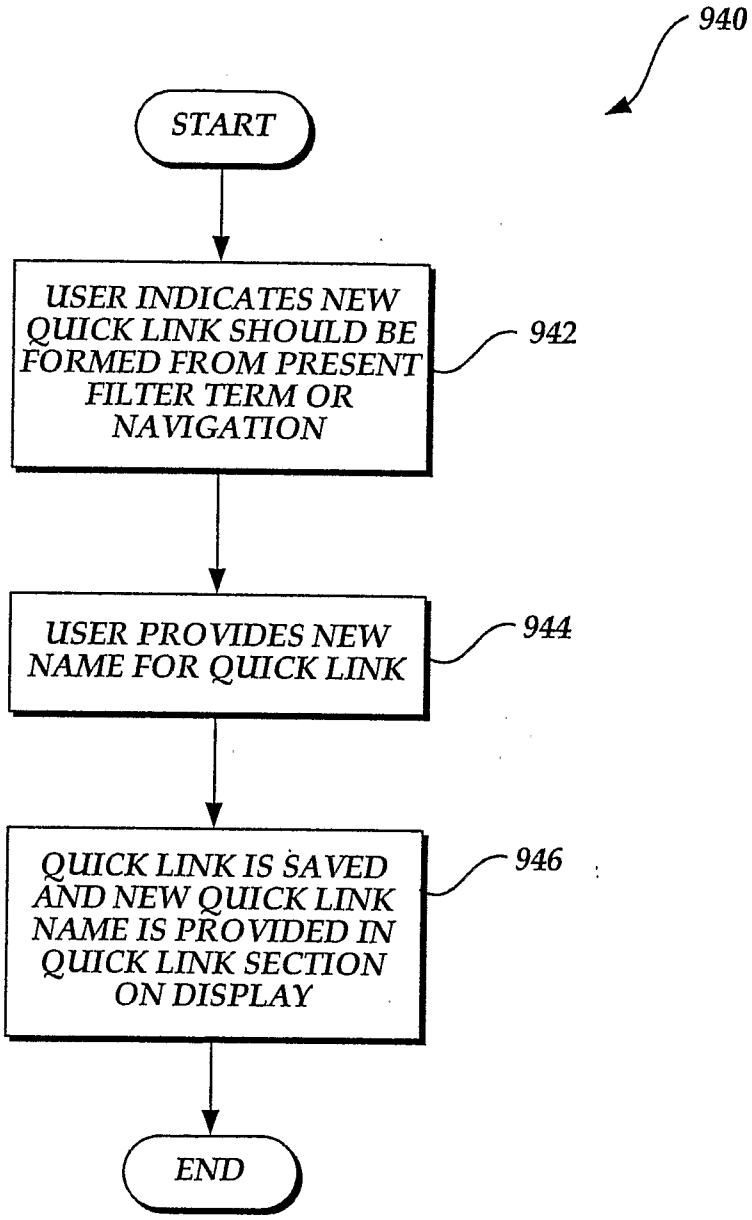

940
START
USER INDICATES NEW QUICK LINK SHOULD BE FORMED FROM PRESENT FILTER TERM OR NAVIGATION
942
USER PROVIDES NEW NAME FOR QUICK LINK
944
QUICK LINK IS SAVED AND NEW QUICK LINK NAME IS PROVIDED IN QUICK LINK SECTION ON DISPLAY
946
END

Fig.30.

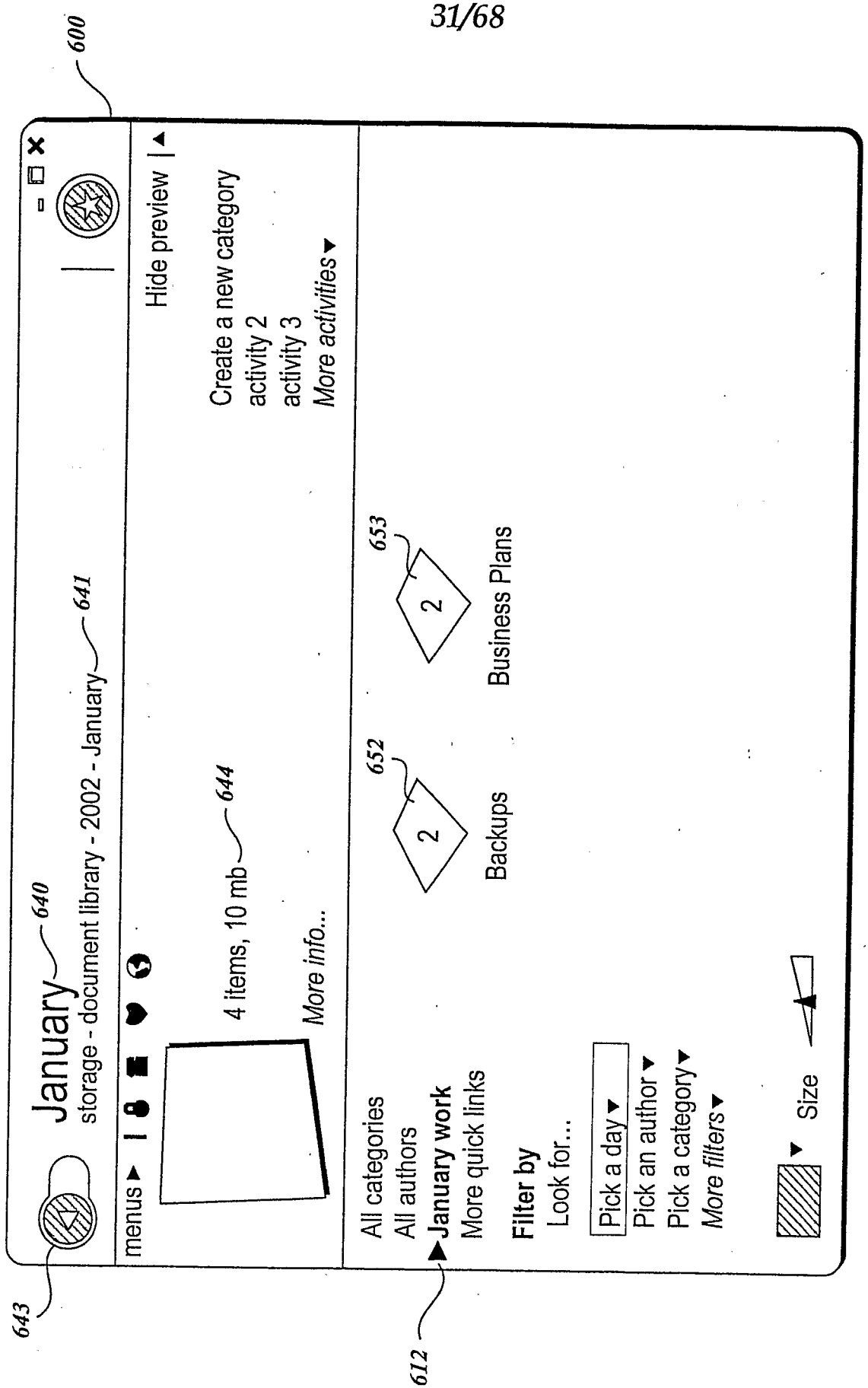

600
643
640
January
storage - document library - 2002 - January
641
menus
Hide preview
Create a new category
activity 2
activity 3
More activities
4 items, 10 mb
644
More info...
652
653
2
2
Backups
Business Plans
All categories
All authors
January work
More quick links
Filter by
Look for...
Pick a day
Pick an author
Pick a category
More filters
Size
612

Fig.31.

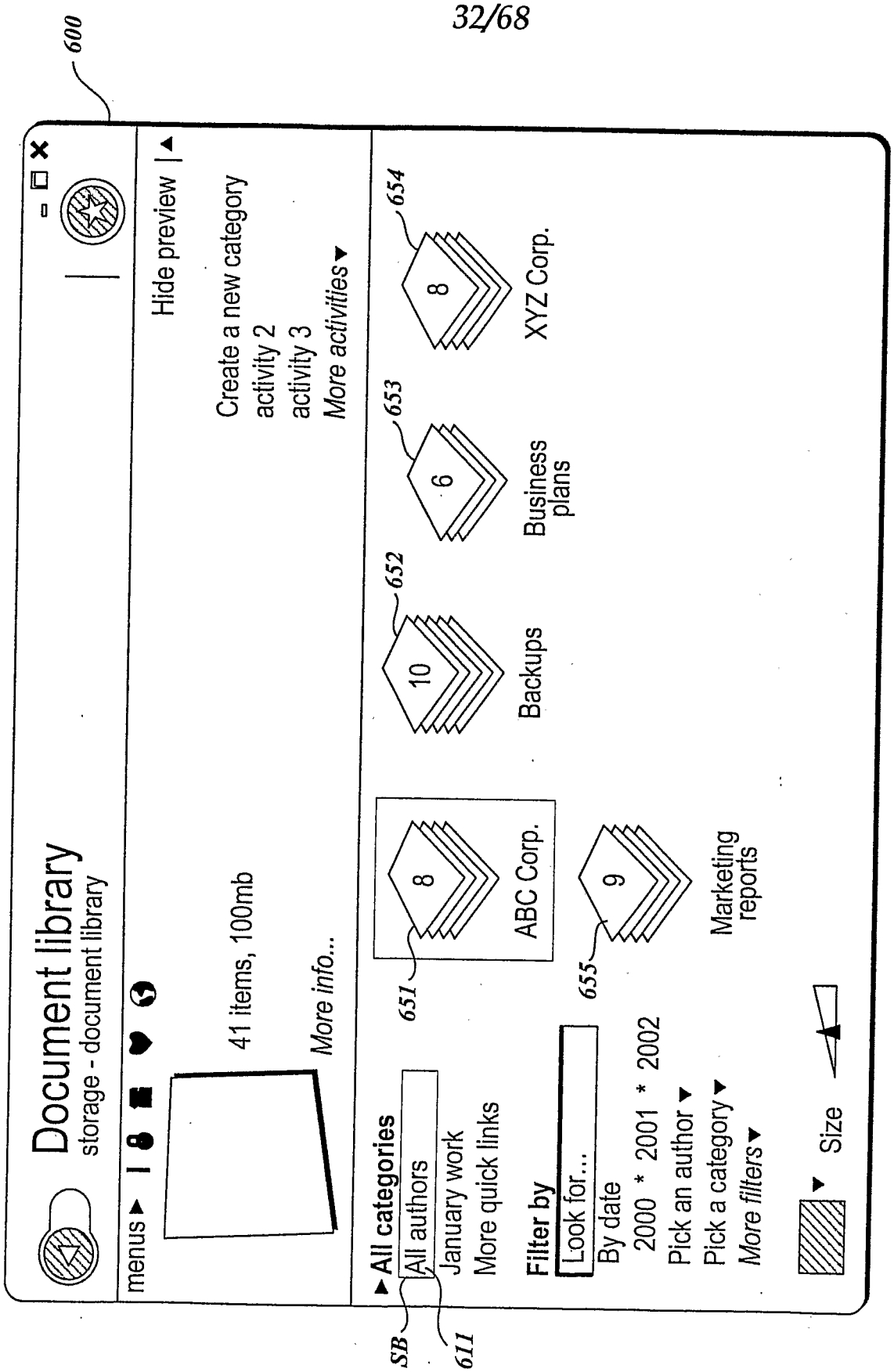

600
Document library
storage - document library
menus
Hide preview
41 items, 100mb
More info...
Create a new category
activity 2
activity 3
More activities
All categories
All authors
January work
More quick links
Filter by
Look for...
By date
2000 * 2001 * 2002
Pick an author
Pick a category
More filters
Size
SB
611
651
652
653
654
655
8
10
6
8
9
ABC Corp.
Backups
Business plans
XYZ Corp.
Marketing reports

Fig.32.

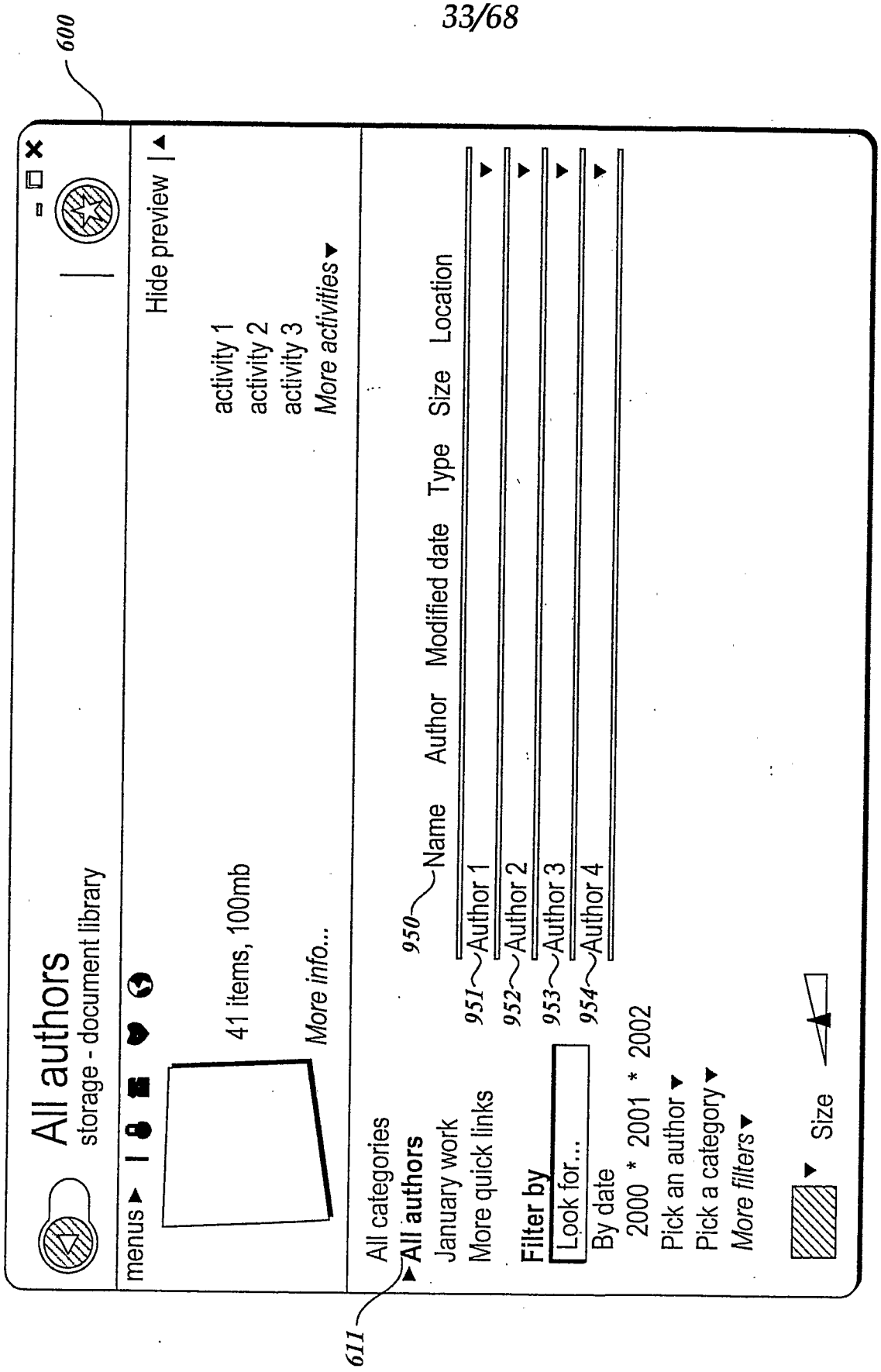

600
All authors
storage - document library
menus
Hide preview
activity 1
activity 2
activity 3
More activities
41 items, 100mb
More info...
611
All categories
All authors
January work
More quick links
Filter by
Look for...
By date
2000 * 2001 * 2002
Pick an author
Pick a category
More filters
Size
950
Name
Author
Modified date
Type
Size
Location
951
Author 1
952
Author 2
953
Author 3
954
Author 4

Fig.33.

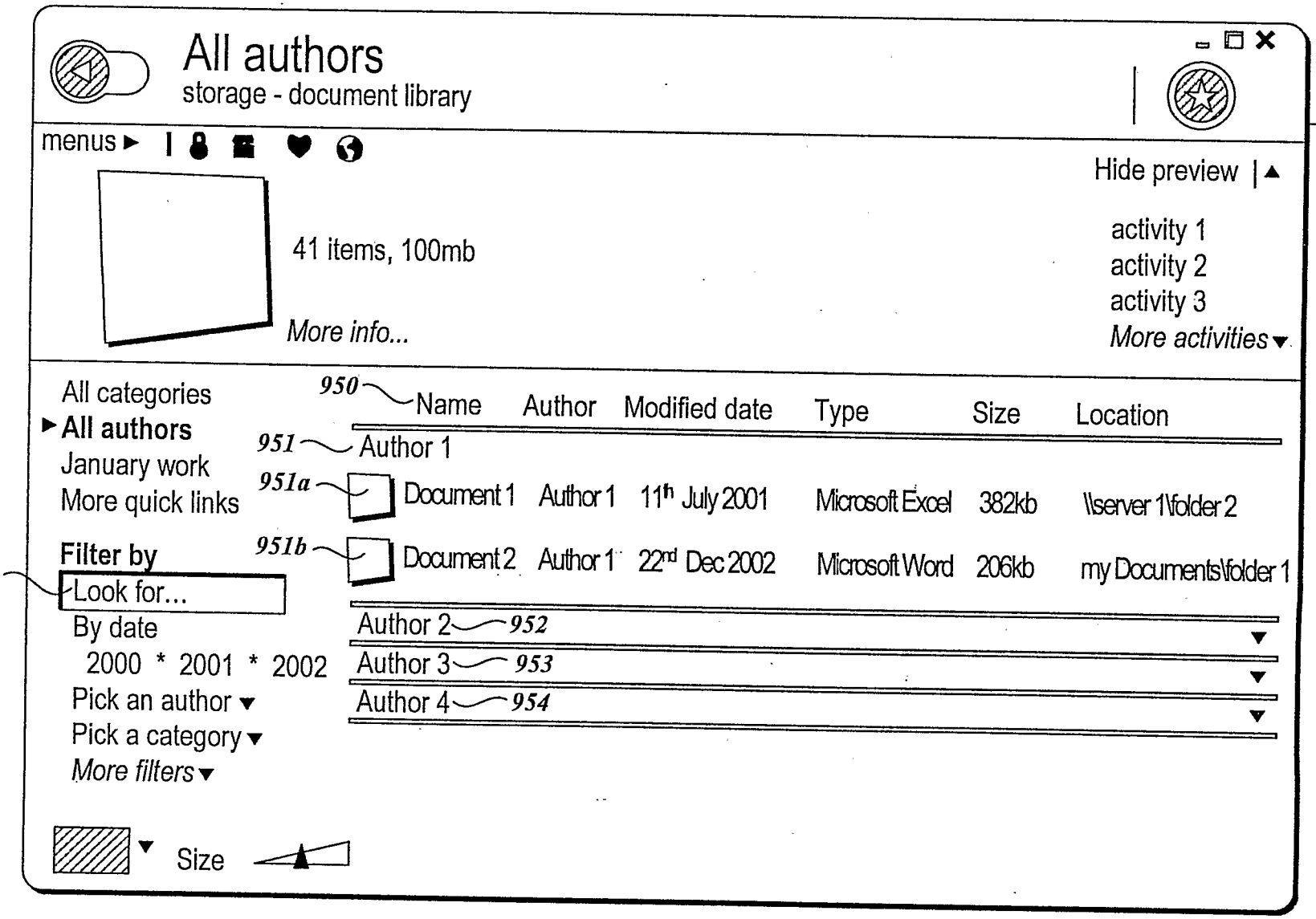

All authors
storage - document library
600
menus ▶
Hide preview
41 items, 100mb
More info...
activity 1
activity 2
activity 3
More activities
All categories
All authors
January work
More quick links
Filter by
611
Look for...
By date
2000 * 2001 * 2002
Pick an author
Pick a category
More filters
950
Name
Author
Modified date
Type
Size
Location
951
Author 1
951a
Document 1
Author 1
11th July 2001
Microsoft Excel
382kb
\\server 1\folder 2
951b
Document 2
Author 1
22nd Dec 2002
Microsoft Word
206kb
my Documents\folder 1
Author 2
952
Author 3
953
Author 4
954
Size

Fig.34.

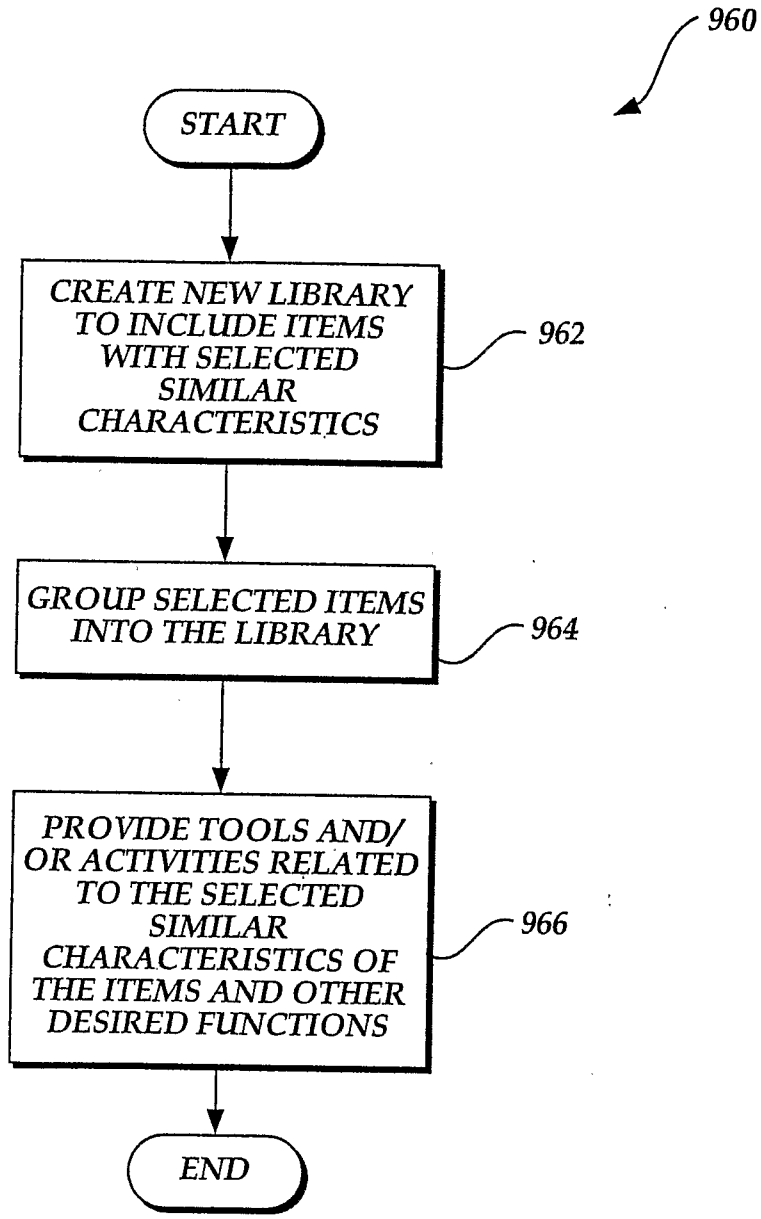

960
START
CREATE NEW LIBRARY TO INCLUDE ITEMS WITH SELECTED SIMILAR CHARACTERISTICS
962
GROUP SELECTED ITEMS INTO THE LIBRARY
964
PROVIDE TOOLS AND/ OR ACTIVITIES RELATED TO THE SELECTED SIMILAR CHARACTERISTICS OF THE ITEMS AND OTHER DESIRED FUNCTIONS
966
END

Fig.35.

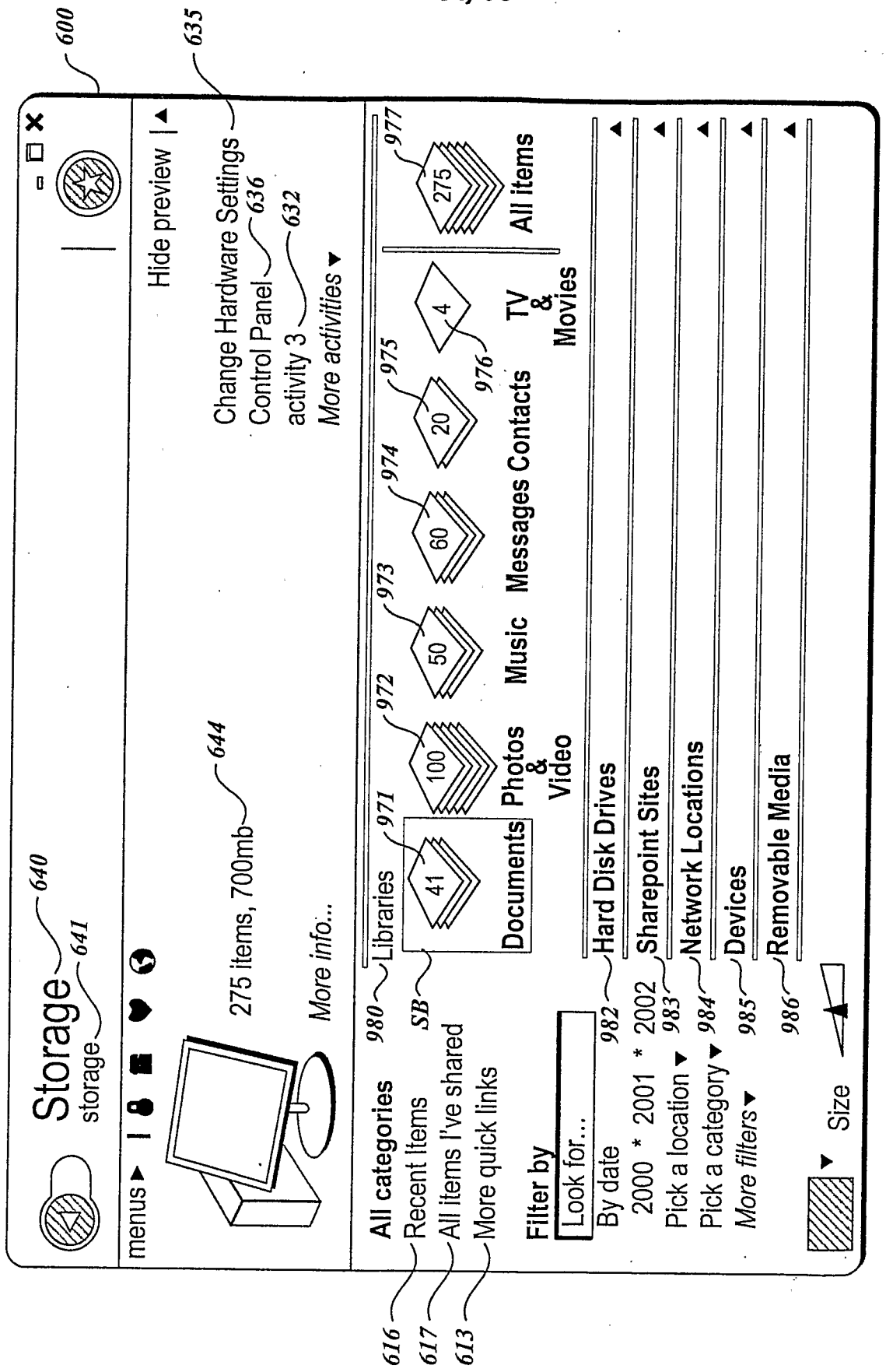

600
635
640
641
Storage
storage
menus
Hide preview
644
275 items, 700mb
More info...
Change Hardware Settings
Control Panel
636
activity 3
632
More activities
All categories
980
Libraries
971
Documents
41
SB
Photos & Video
972
100
Music
973
50
Messages
974
60
Contacts
975
20
TV & Movies
976
4
All items
977
275
Recent Items
All items I've shared
More quick links
616
617
613
Filter by
Look for...
By date
982
Hard Disk Drives
2000 * 2001 * 2002
983
Sharepoint Sites
Pick a location
984
Network Locations
Pick a category
985
Devices
More filters
986
Removable Media
Size

Fig.36.

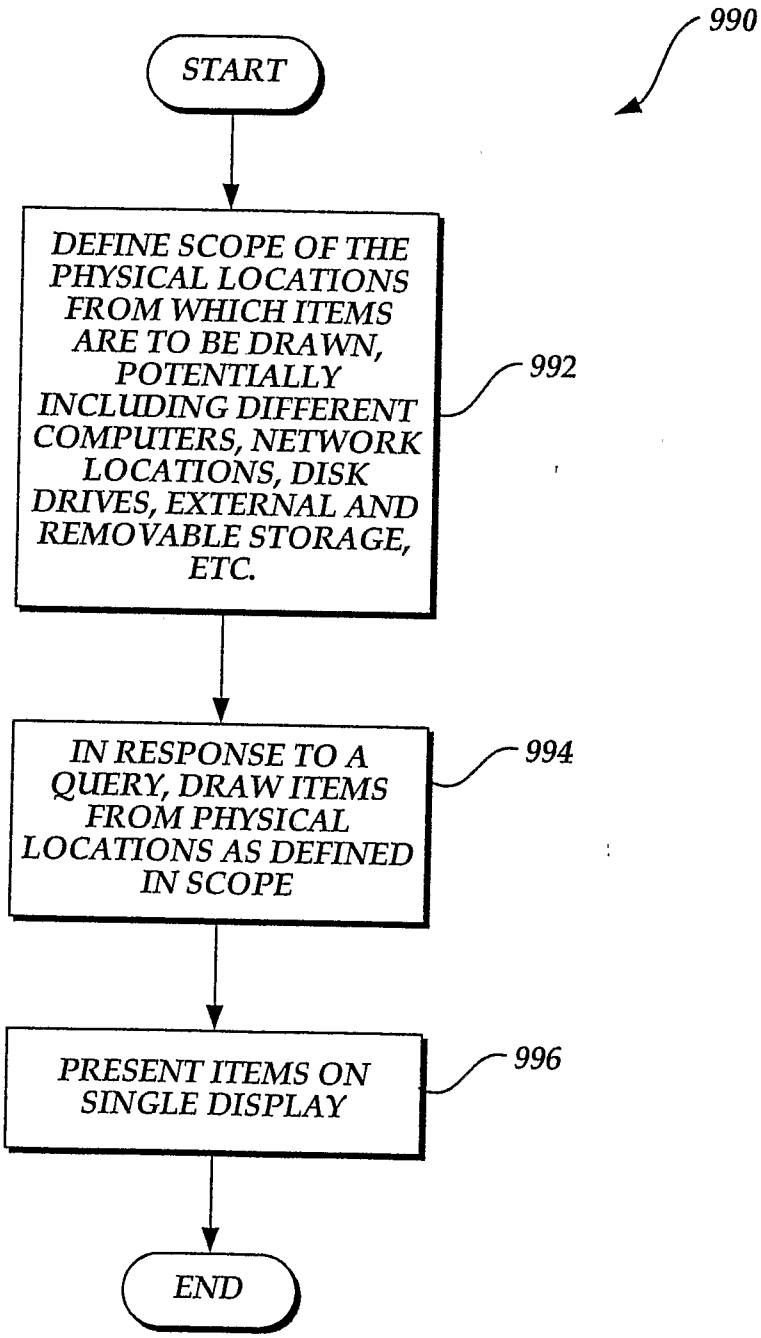

990
START
DEFINE SCOPE OF THE PHYSICAL LOCATIONS FROM WHICH ITEMS ARE TO BE DRAWN, POTENTIALLY INCLUDING DIFFERENT COMPUTERS, NETWORK LOCATIONS, DISK DRIVES, EXTERNAL AND REMOVABLE STORAGE, ETC.
992
IN RESPONSE TO A QUERY, DRAW ITEMS FROM PHYSICAL LOCATIONS AS DEFINED IN SCOPE
994
PRESENT ITEMS ON SINGLE DISPLAY
996
END

Fig.37.

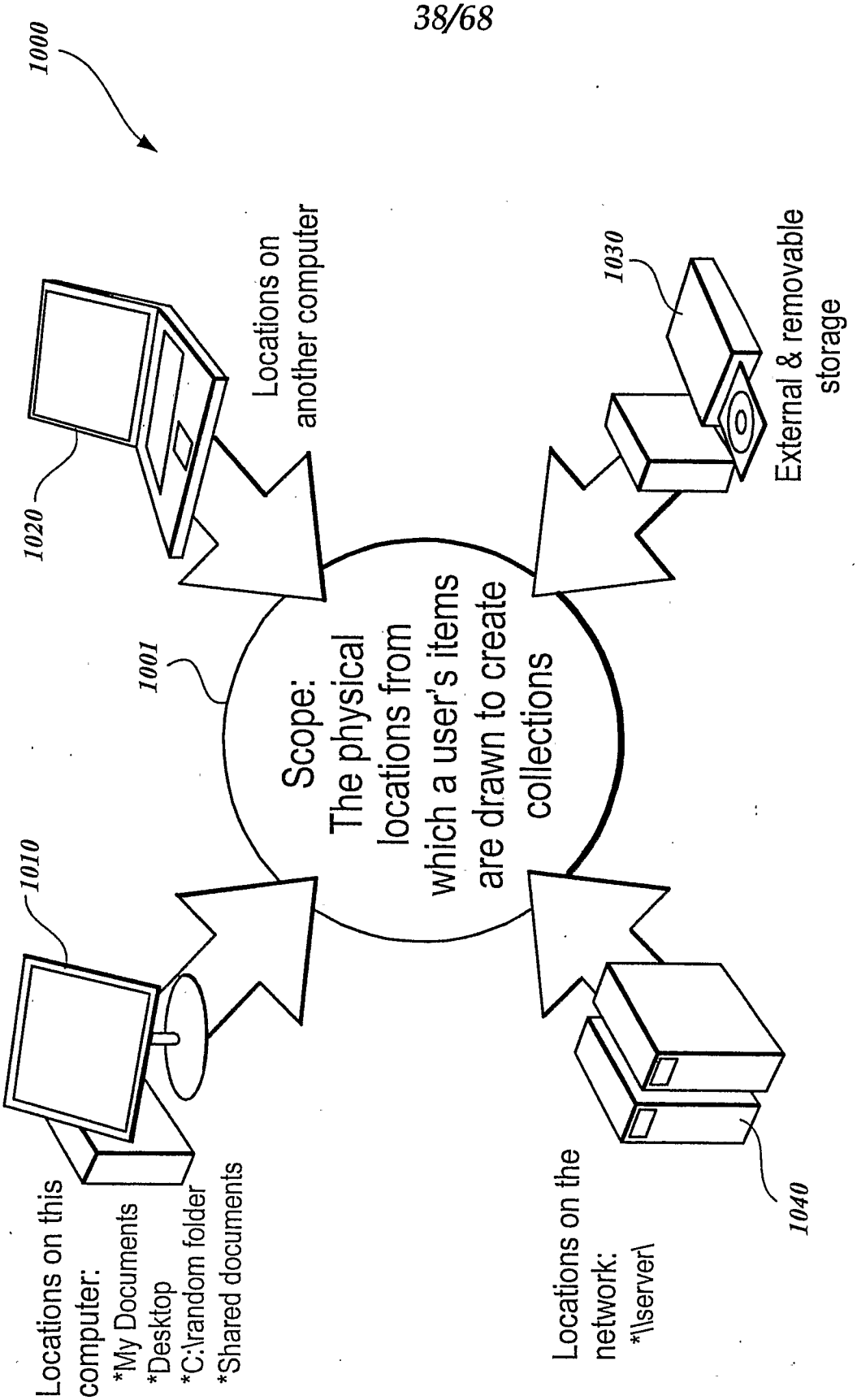

1000
1001
Scope:
The physical locations from which a user's items are drawn to create collections
1010
Locations on this computer:
*My Documents
*Desktop
*C:\random folder
*Shared documents
1020
Locations on another computer
1030
External & removable storage
1040
Locations on the network:
*\\server\

Fig.38.

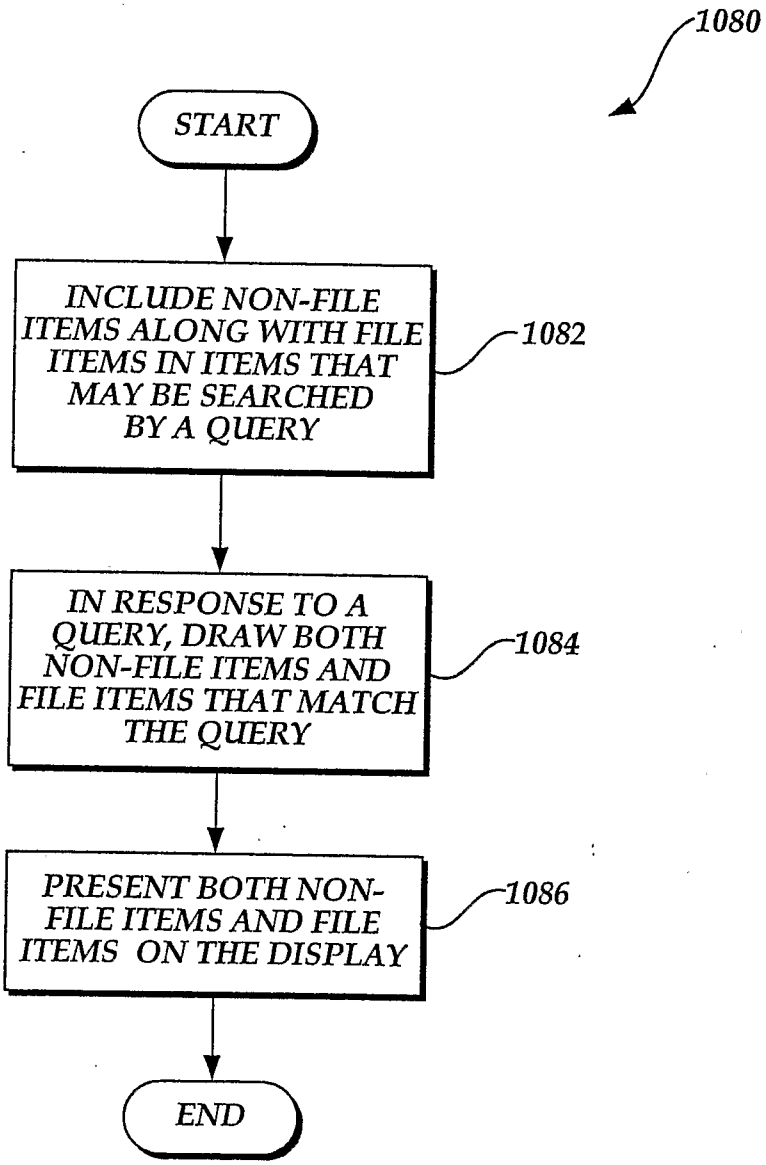

1080
START
INCLUDE NON-FILE ITEMS ALONG WITH FILE ITEMS IN ITEMS THAT MAY BE SEARCHED BY A QUERY
1082
IN RESPONSE TO A QUERY, DRAW BOTH NON-FILE ITEMS AND FILE ITEMS THAT MATCH THE QUERY
1084
PRESENT BOTH NON-FILE ITEMS AND FILE ITEMS ON THE DISPLAY
1086
END

Fig.39.

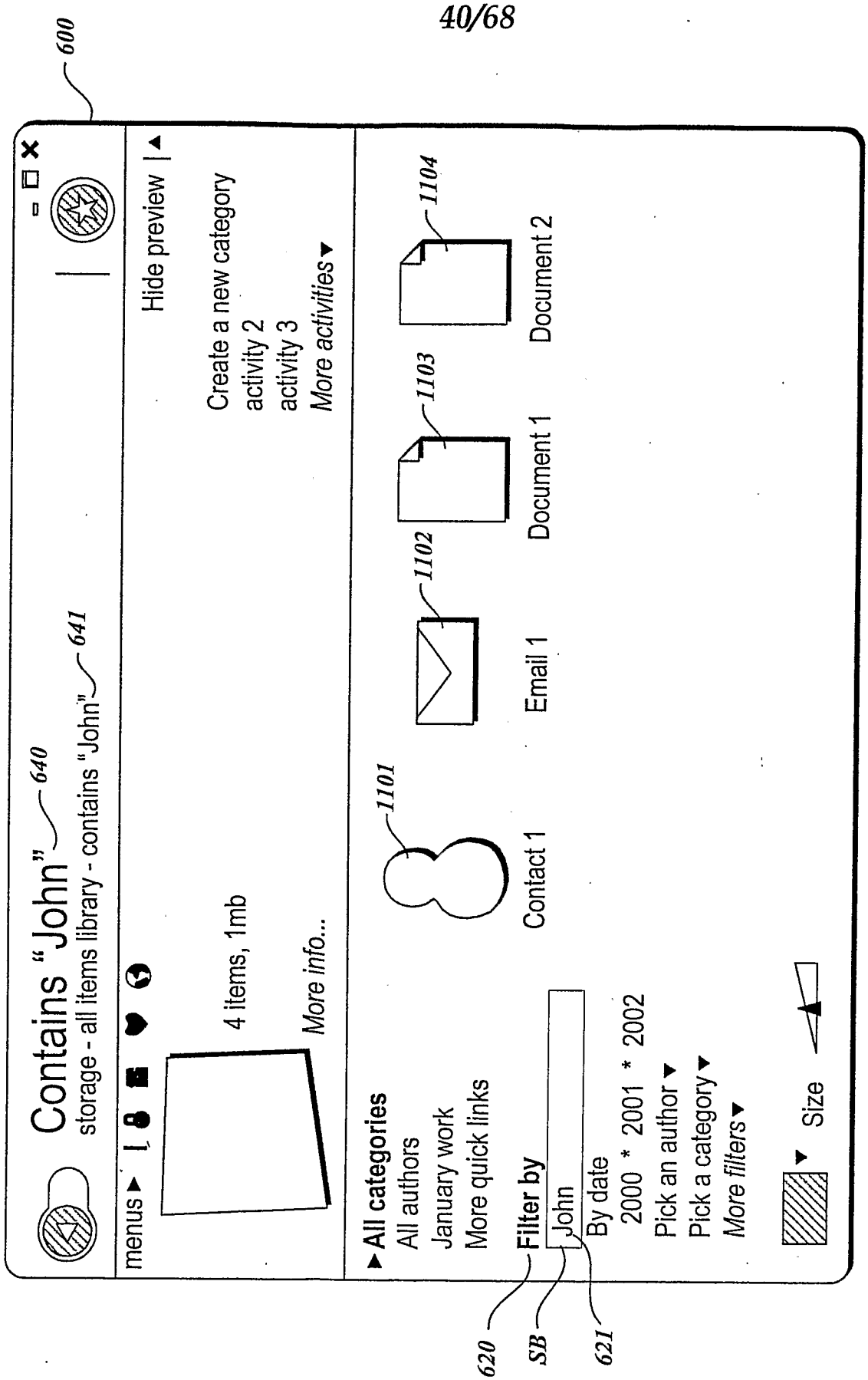

600
Contains "John"
640
storage - all items library - contains "John"
641
menus
Hide preview
4 items, 1mb
More info...
Create a new category
activity 2
activity 3
More activities
All categories
All authors
January work
More quick links
Filter by
John
By date
2000 * 2001 * 2002
Pick an author
Pick a category
More filters
Size
1101
Contact 1
1102
Email 1
1103
Document 1
1104
Document 2
620
SB
621

Fig.40.

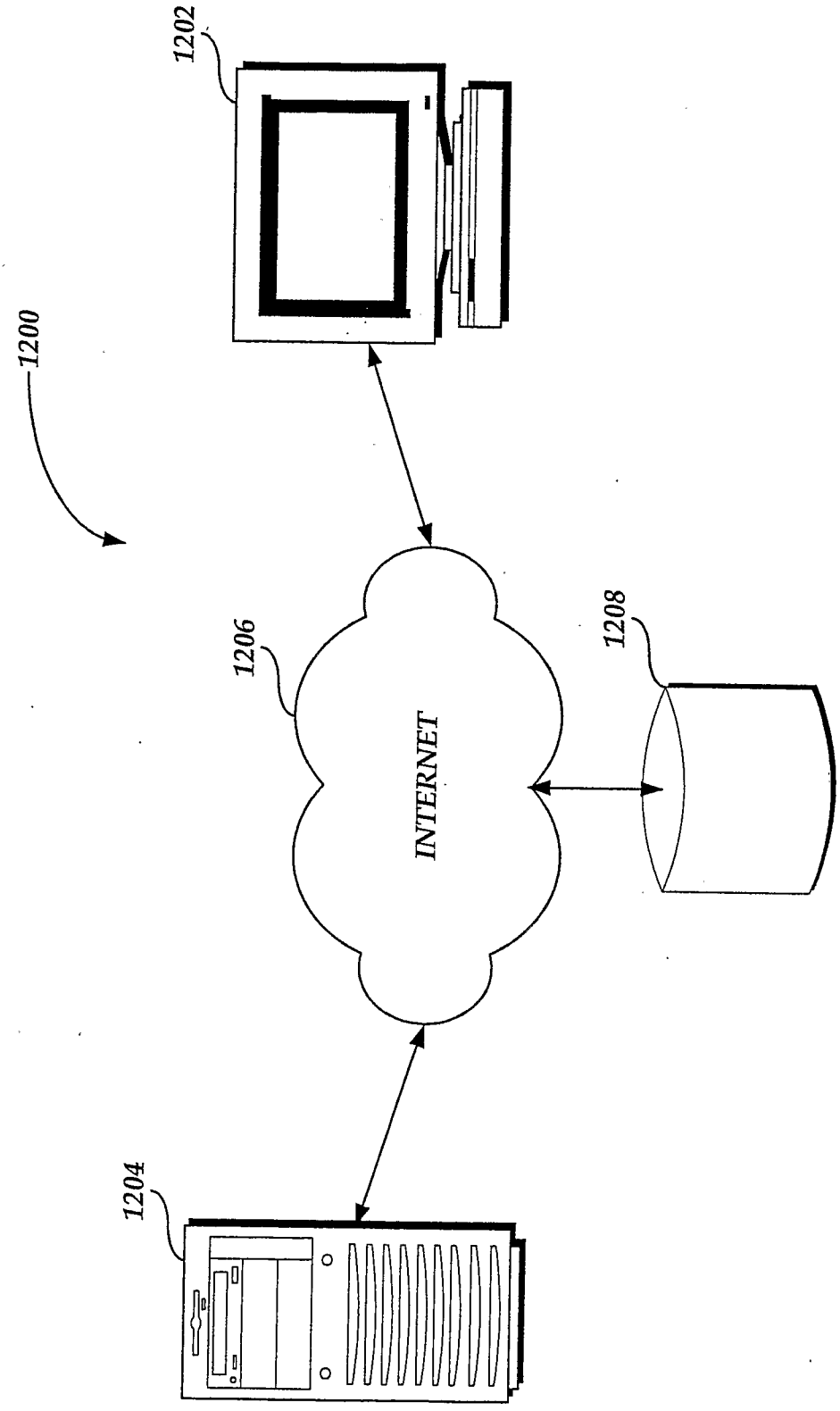
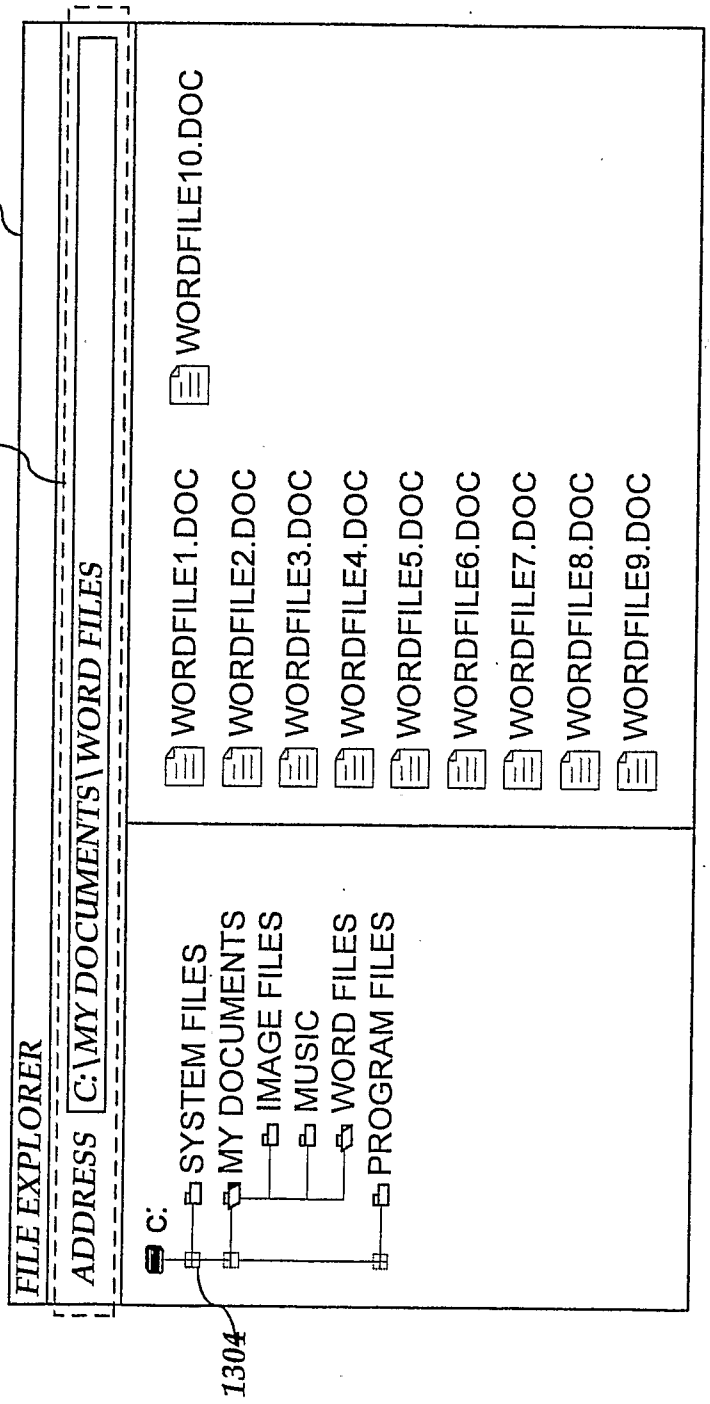


Fig.41.



(PRIOR ART)

Fig.42.

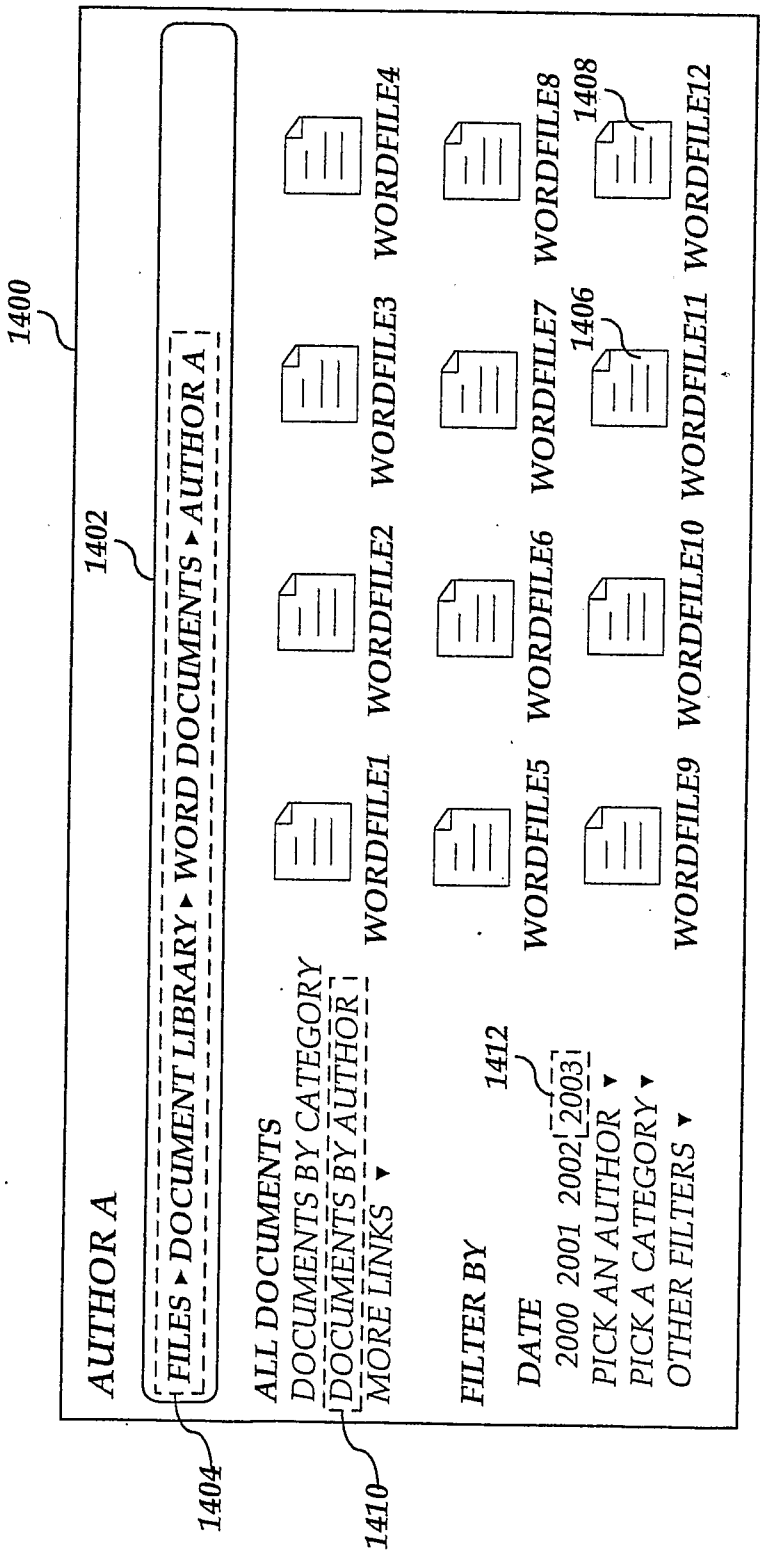

1400
AUTHOR A
1402
FILES ▸ DOCUMENT LIBRARY ▸ WORD DOCUMENTS ▸ AUTHOR A
1404
ALL DOCUMENTS
DOCUMENTS BY CATEGORY
DOCUMENTS BY AUTHOR
1410
MORE LINKS ▾
FILTER BY
1412
DATE
2000 2001 2002 2003
PICK AN AUTHOR ▾
PICK A CATEGORY ▾
OTHER FILTERS ▾
WORDFILE1
WORDFILE2
WORDFILE3
WORDFILE4
WORDFILE5
WORDFILE6
WORDFILE7
WORDFILE8
WORDFILE9
WORDFILE10
WORDFILE11
WORDFILE12
1406
1408

Fig.43.

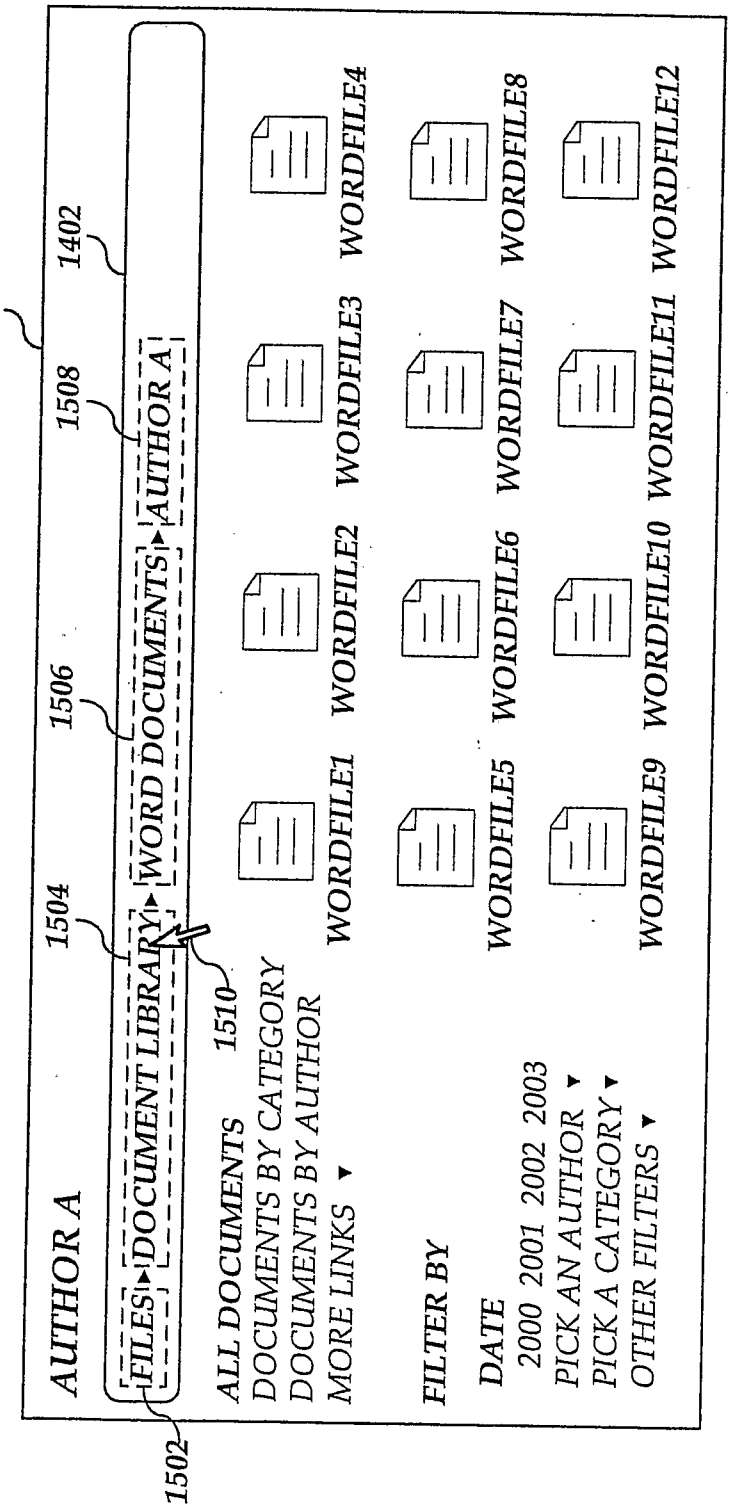

1400
1402
1504
1506
1508
1502
1510
AUTHOR A
FILES ▸ DOCUMENT LIBRARY ▸ WORD DOCUMENTS ▸ AUTHOR A
ALL DOCUMENTS
DOCUMENTS BY CATEGORY
DOCUMENTS BY AUTHOR
MORE LINKS ▾
FILTER BY
DATE
2000 2001 2002 2003
PICK AN AUTHOR ▾
PICK A CATEGORY ▾
OTHER FILTERS ▾
WORDFILE1
WORDFILE2
WORDFILE3
WORDFILE4
WORDFILE5
WORDFILE6
WORDFILE7
WORDFILE8
WORDFILE9
WORDFILE10
WORDFILE11
WORDFILE12

Fig.44A.

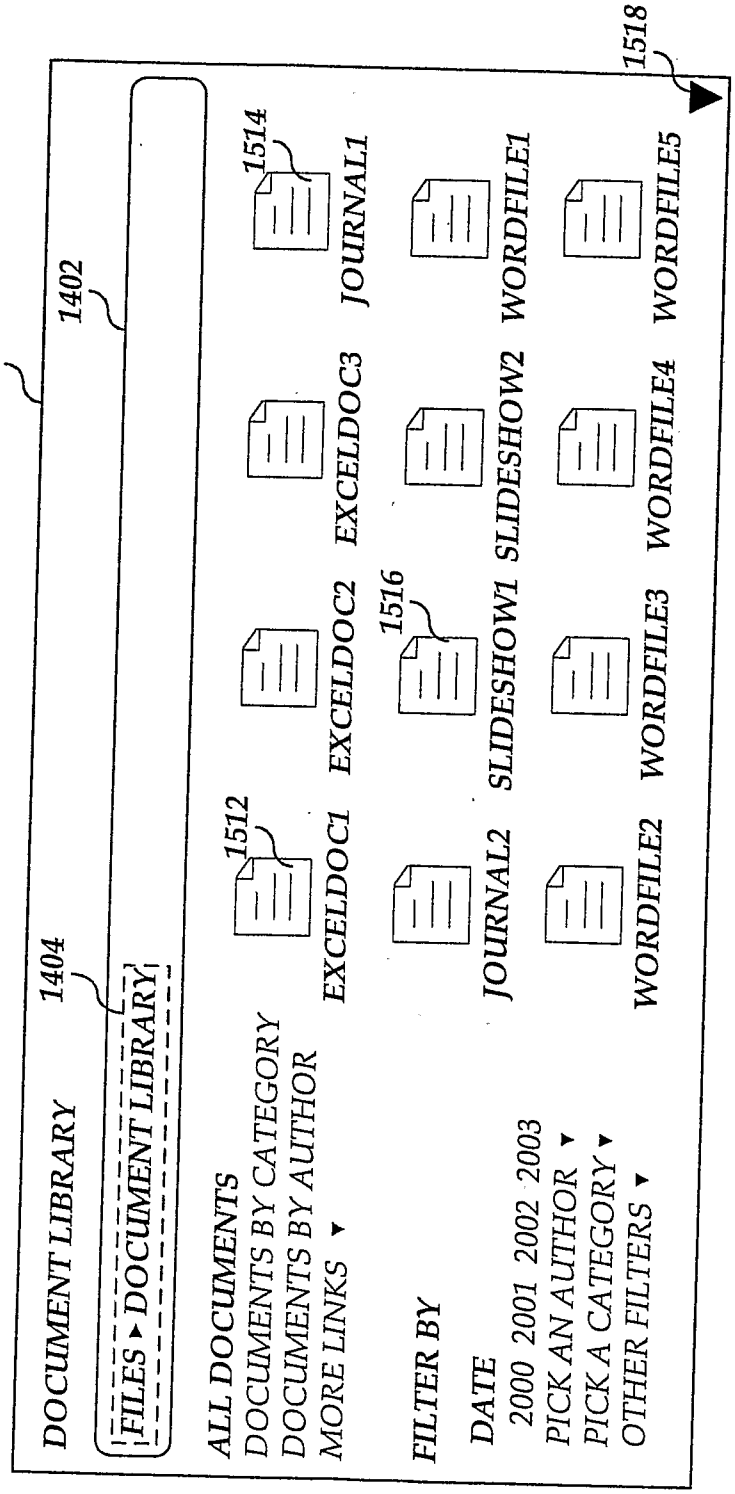

1400
1402
1404
DOCUMENT LIBRARY
FILES ▸ DOCUMENT LIBRARY
ALL DOCUMENTS
DOCUMENTS BY CATEGORY
DOCUMENTS BY AUTHOR
MORE LINKS ▾
FILTER BY
DATE
2000 2001 2002 2003
PICK AN AUTHOR ▾
PICK A CATEGORY ▾
OTHER FILTERS ▾
1512
EXCELDOC1
EXCELDOC2
EXCELDOC3
1514
JOURNAL1
1516
JOURNAL2
SLIDESHOW1
SLIDESHOW2
WORDFILE1
WORDFILE2
WORDFILE3
WORDFILE4
WORDFILE5
1518

Fig.44B.

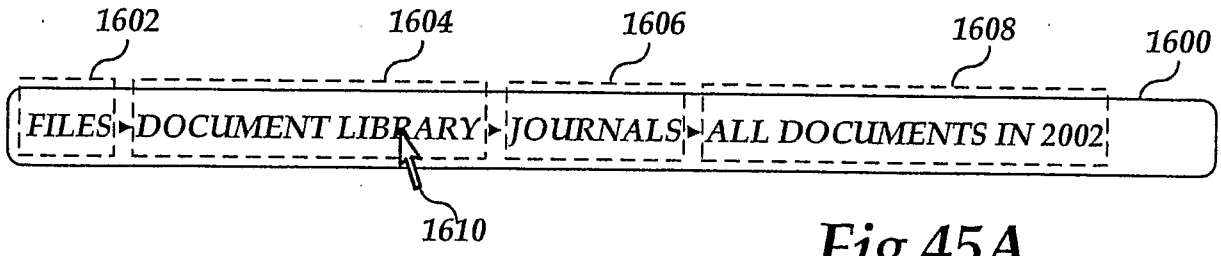


Fig.45A.

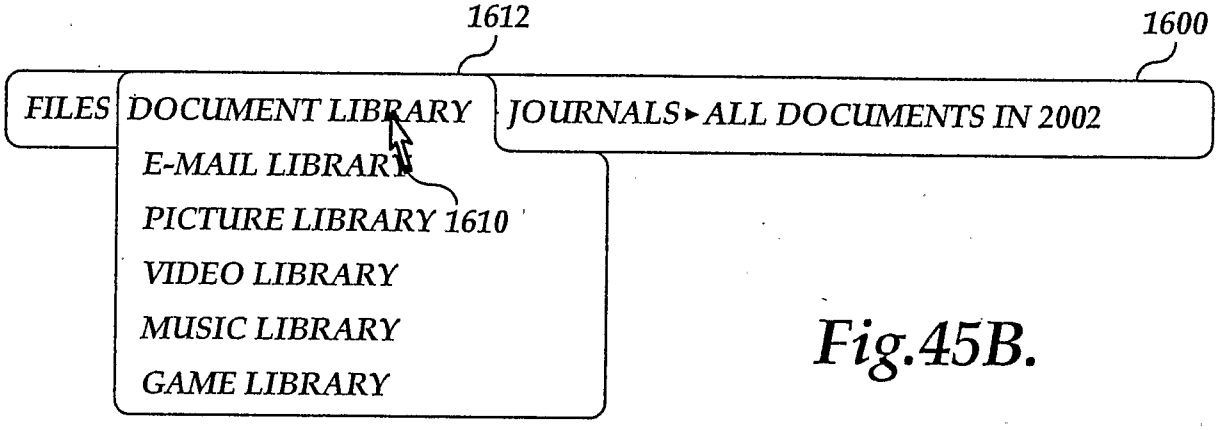


Fig.45B.

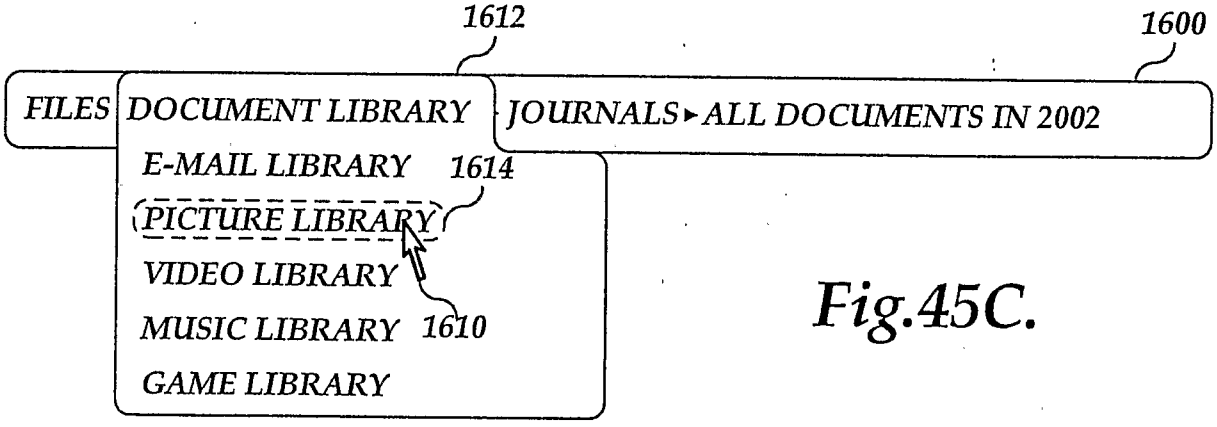


Fig.45C.

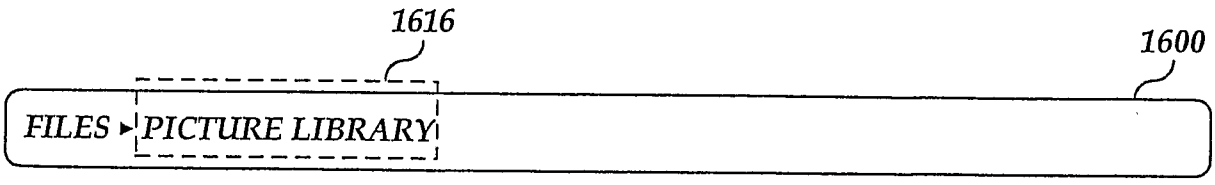


Fig.45D.

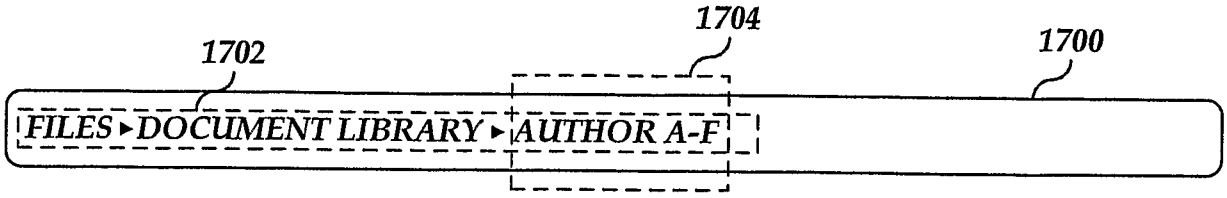


Fig.46A.

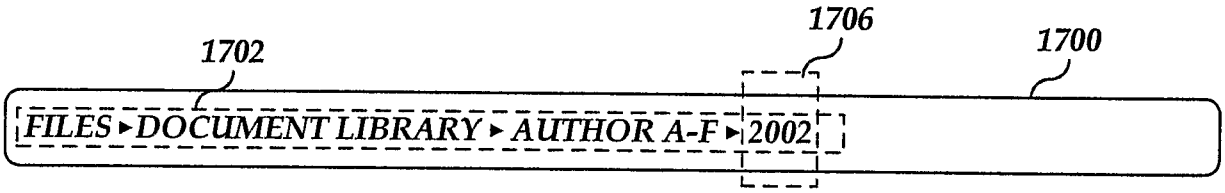


Fig.46B.

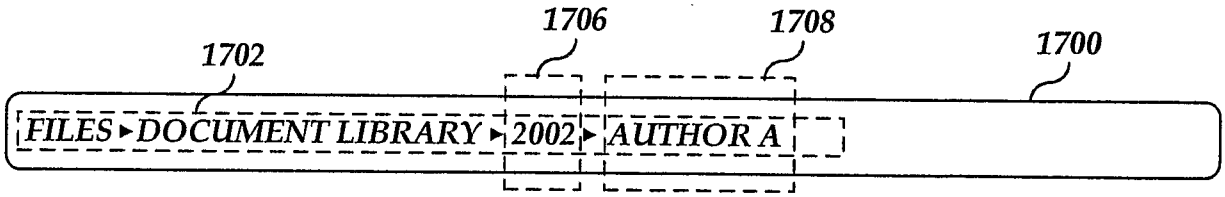


Fig.46C.

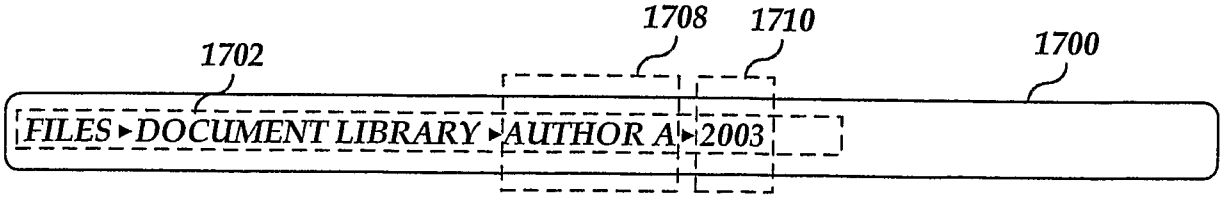


Fig.46D.

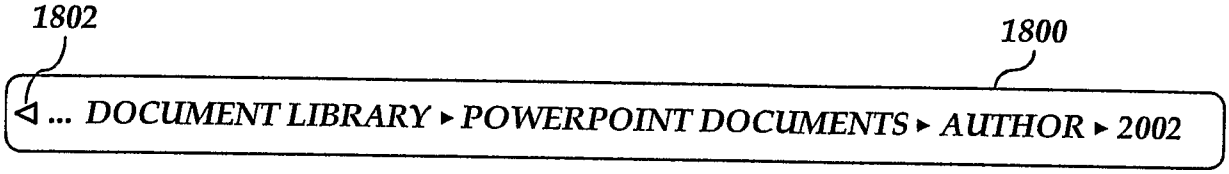


Fig.47A.

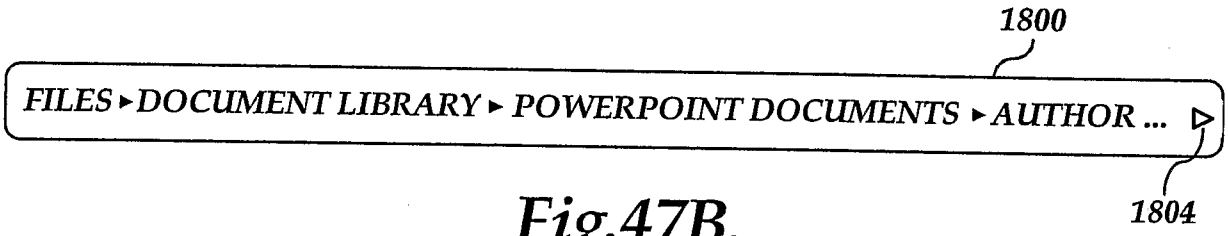


Fig.47B.

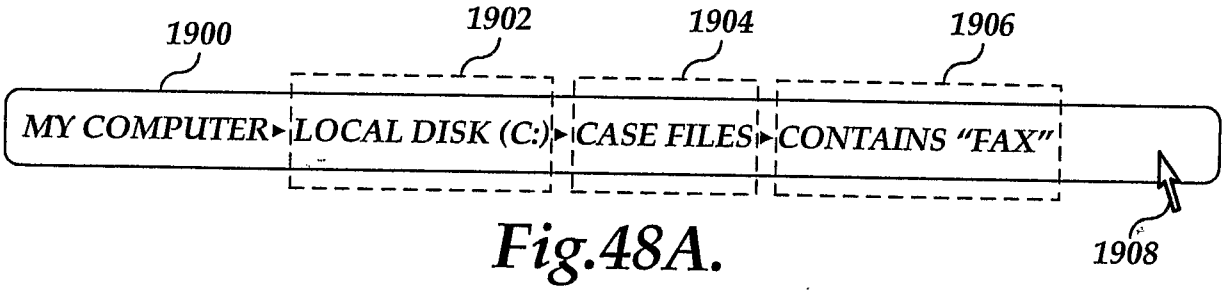


Fig.48A.

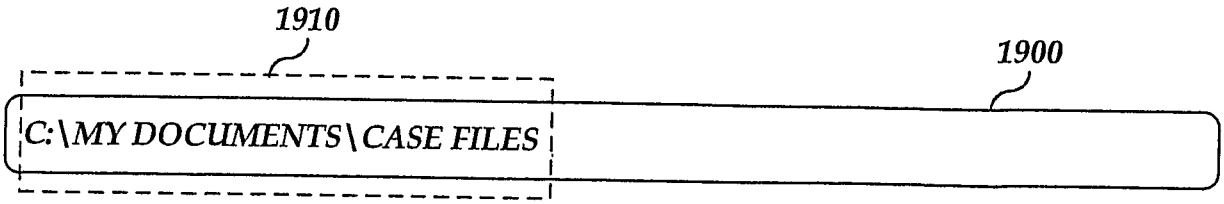


Fig.48B.

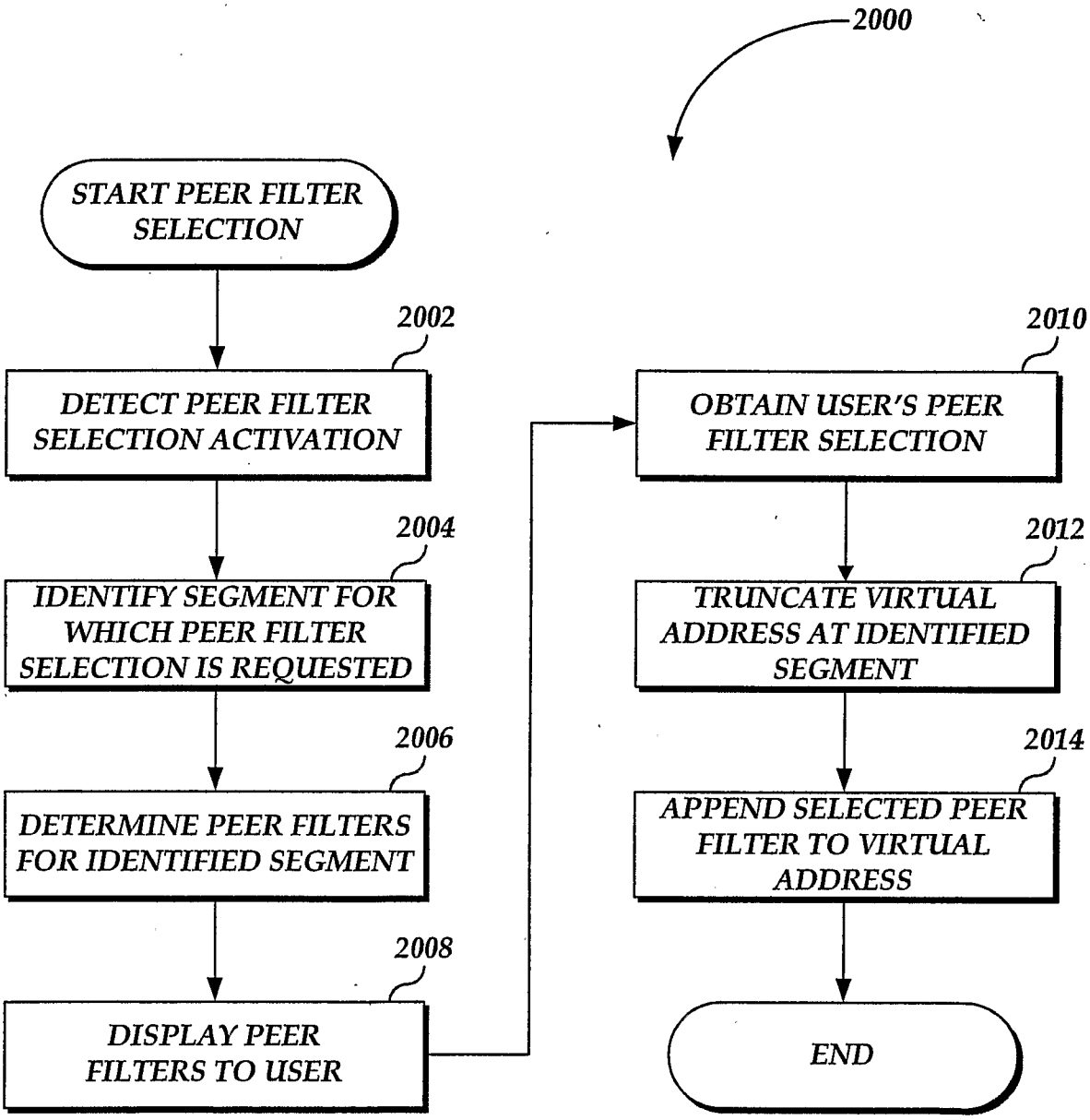

2000
START PEER FILTER SELECTION
2002
DETECT PEER FILTER SELECTION ACTIVATION
2004
IDENTIFY SEGMENT FOR WHICH PEER FILTER SELECTION IS REQUESTED
2006
DETERMINE PEER FILTERS FOR IDENTIFIED SEGMENT
2008
DISPLAY PEER FILTERS TO USER
2010
OBTAIN USER'S PEER FILTER SELECTION
2012
TRUNCATE VIRTUAL ADDRESS AT IDENTIFIED SEGMENT
2014
APPEND SELECTED PEER FILTER TO VIRTUAL ADDRESS
END

Fig.49.

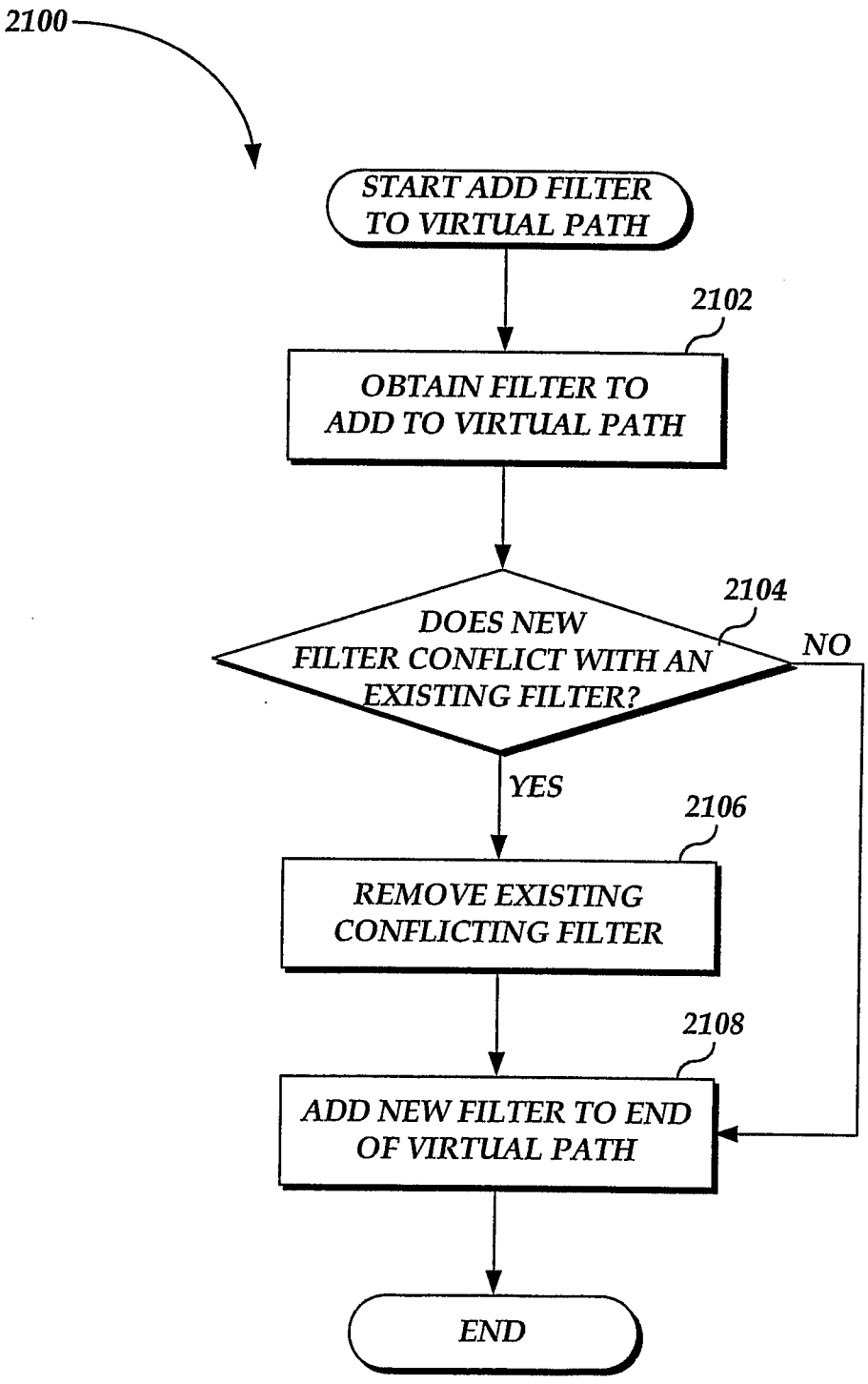

2100
START ADD FILTER TO VIRTUAL PATH
2102
OBTAIN FILTER TO ADD TO VIRTUAL PATH
2104
DOES NEW FILTER CONFLICT WITH AN EXISTING FILTER?
NO
YES
2106
REMOVE EXISTING CONFLICTING FILTER
2108
ADD NEW FILTER TO END OF VIRTUAL PATH
END

Fig.50.

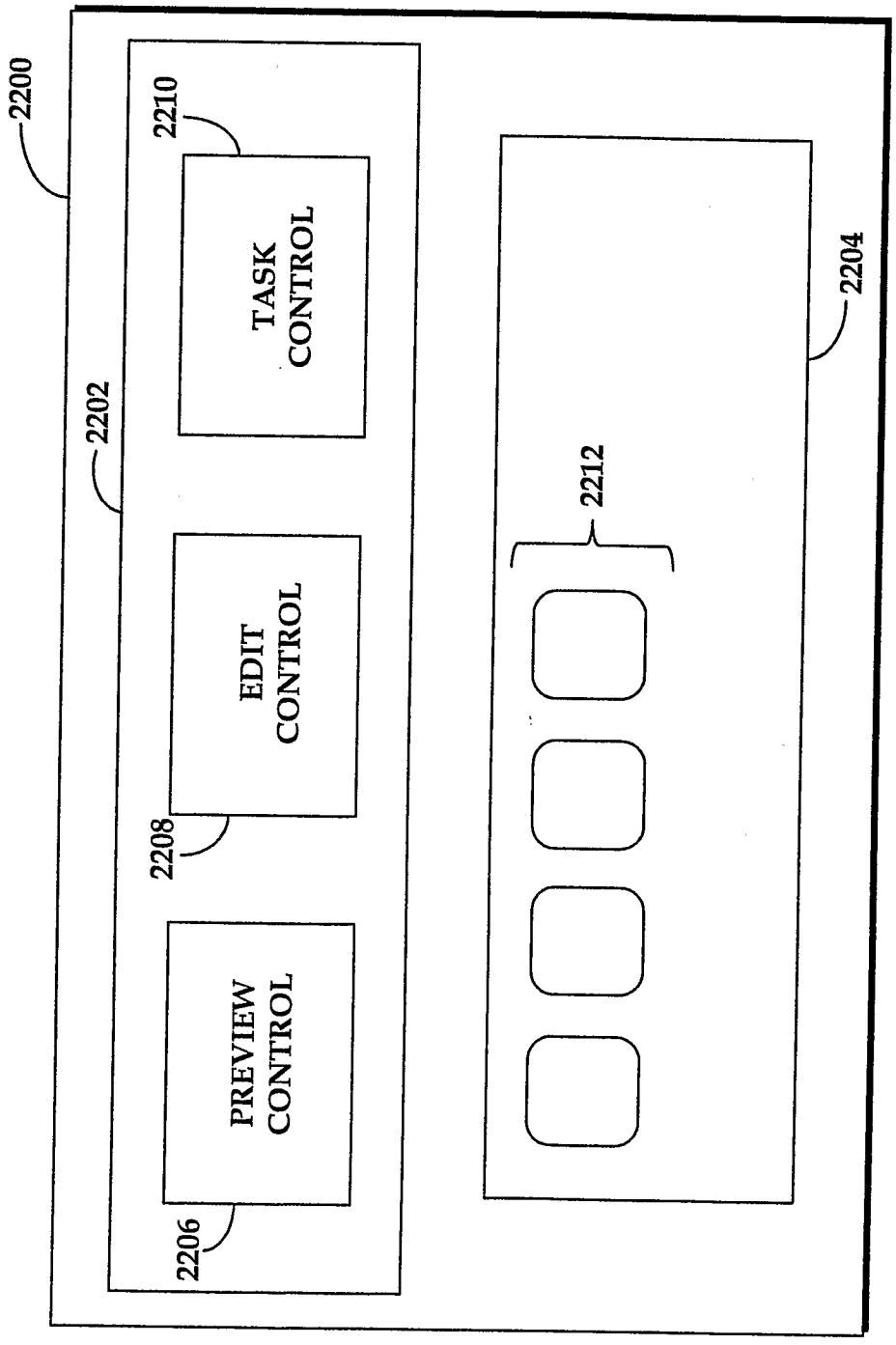

2200
2202
2204
2206
2208
2210
2212
TASK CONTROL
EDIT CONTROL
PREVIEW CONTROL

Fig.51A.

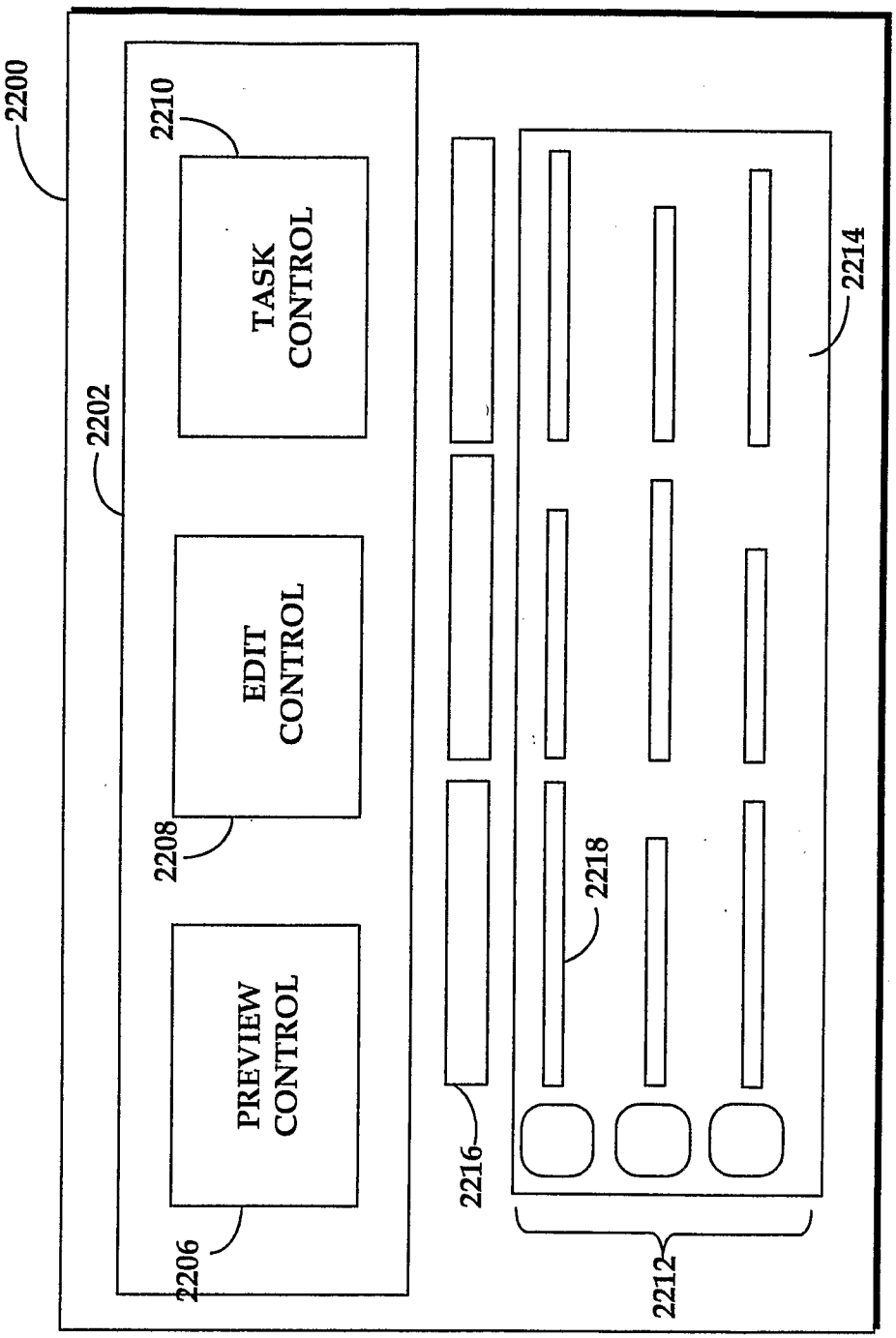

2200
2202
2210
TASK CONTROL
EDIT CONTROL
2208
PREVIEW CONTROL
2206
2214
2218
2216
2212

Fig.51B.

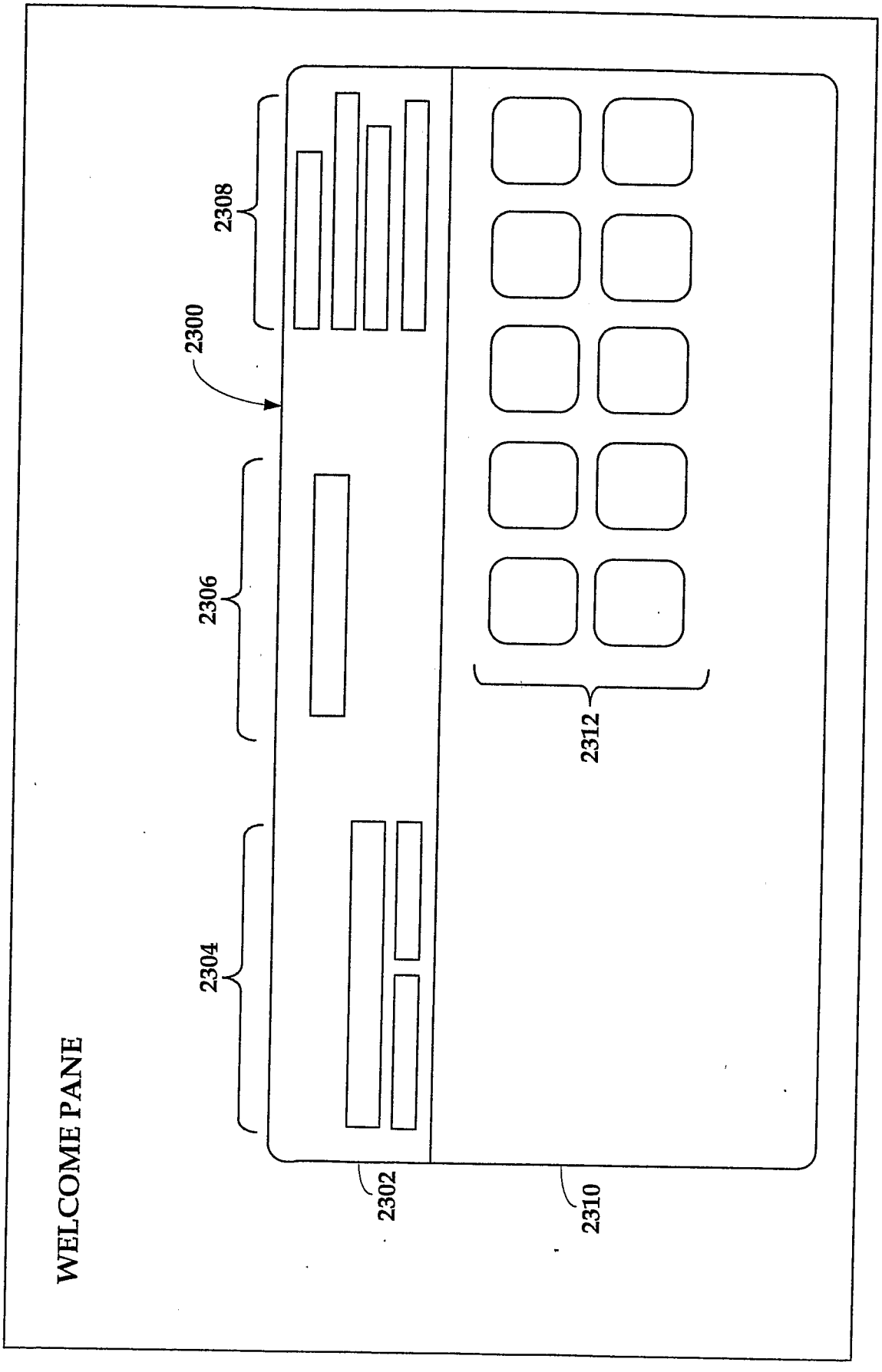


Fig.52.

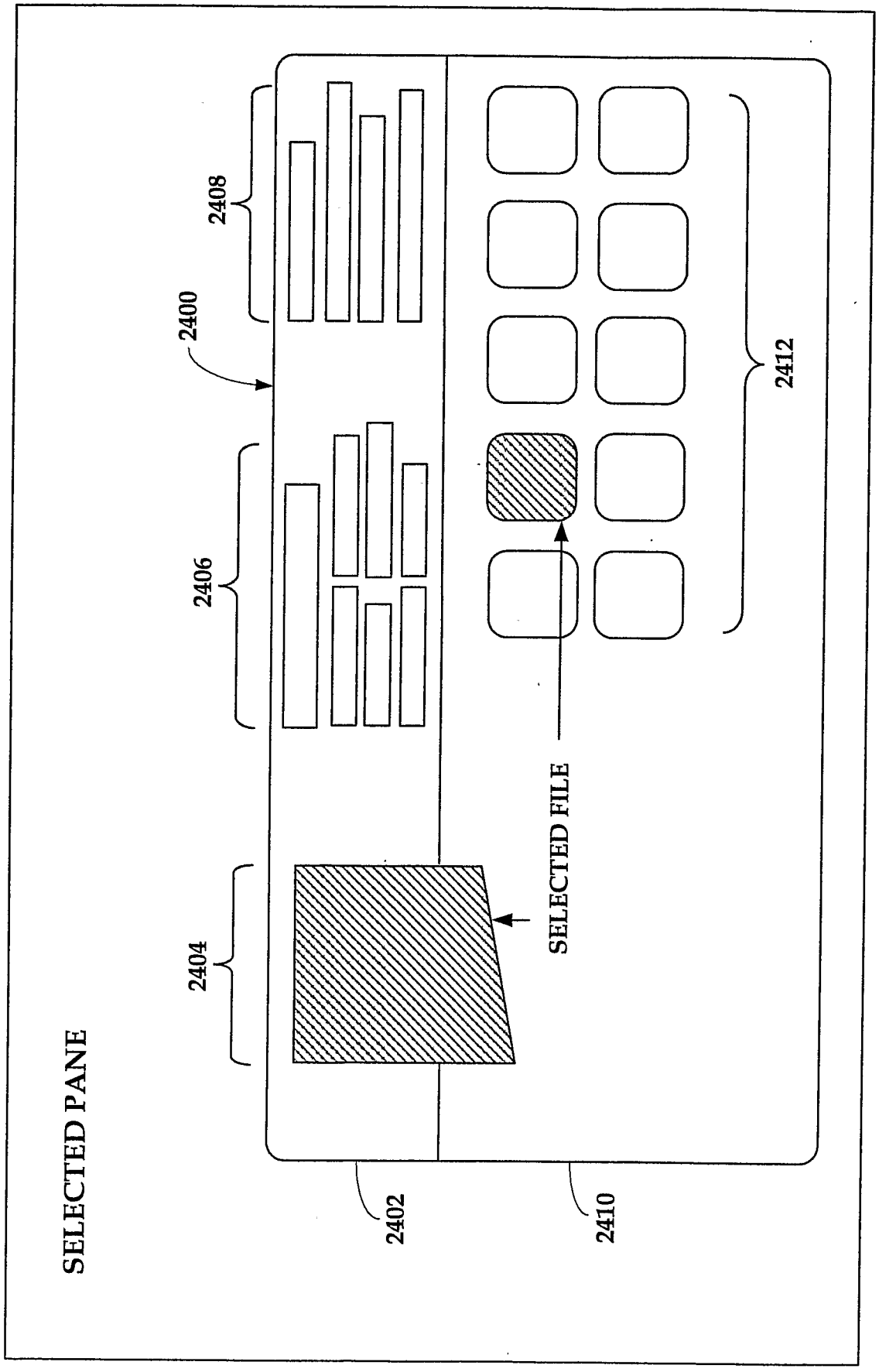

SELECTED PANE
2400
2402
2404
2406
2408
2410
2412
SELECTED FILE

Fig.53.

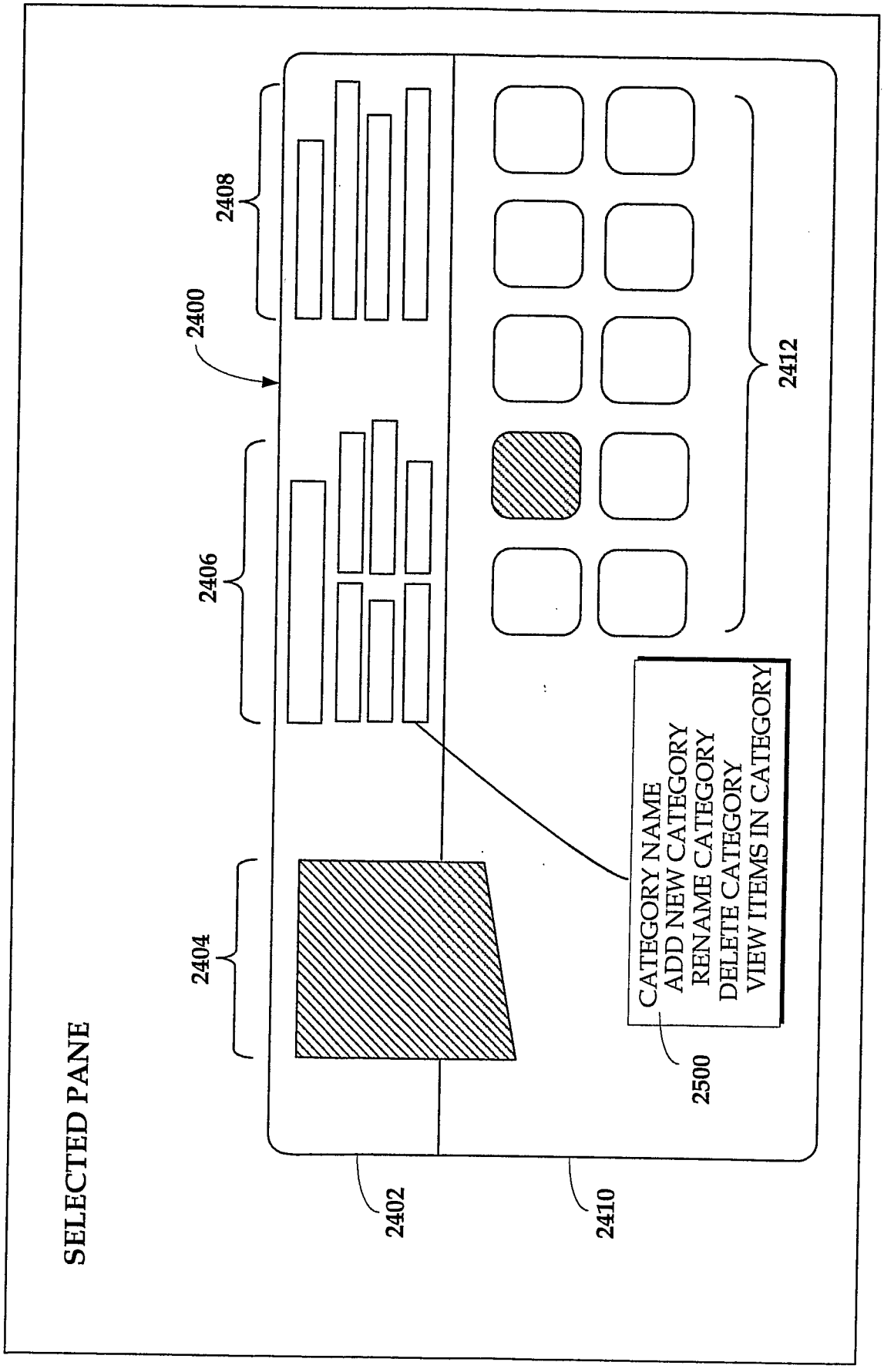

SELECTED PANE
2400
2402
2404
2406
2408
2410
2412
2500
CATEGORY NAME
ADD NEW CATEGORY
RENAME CATEGORY
DELETE CATEGORY
VIEW ITEMS IN CATEGORY

Fig.54.

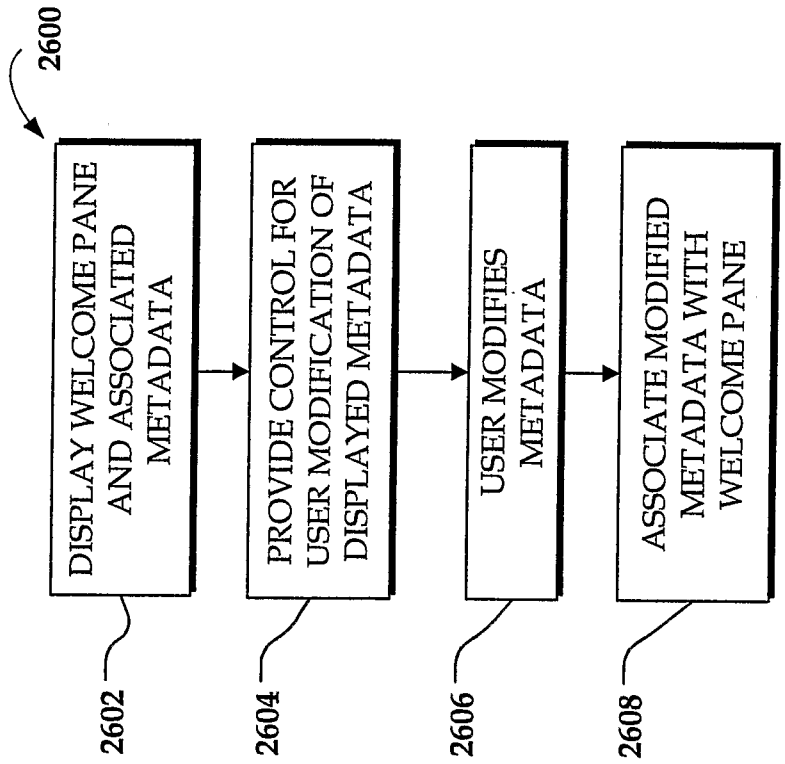

2600
DISPLAY WELCOME PANE AND ASSOCIATED METADATA
PROVIDE CONTROL FOR USER MODIFICATION OF DISPLAYED METADATA
USER MODIFIES METADATA
ASSOCIATE MODIFIED METADATA WITH WELCOME PANE
2602
2604
2606
2608

Fig.55.

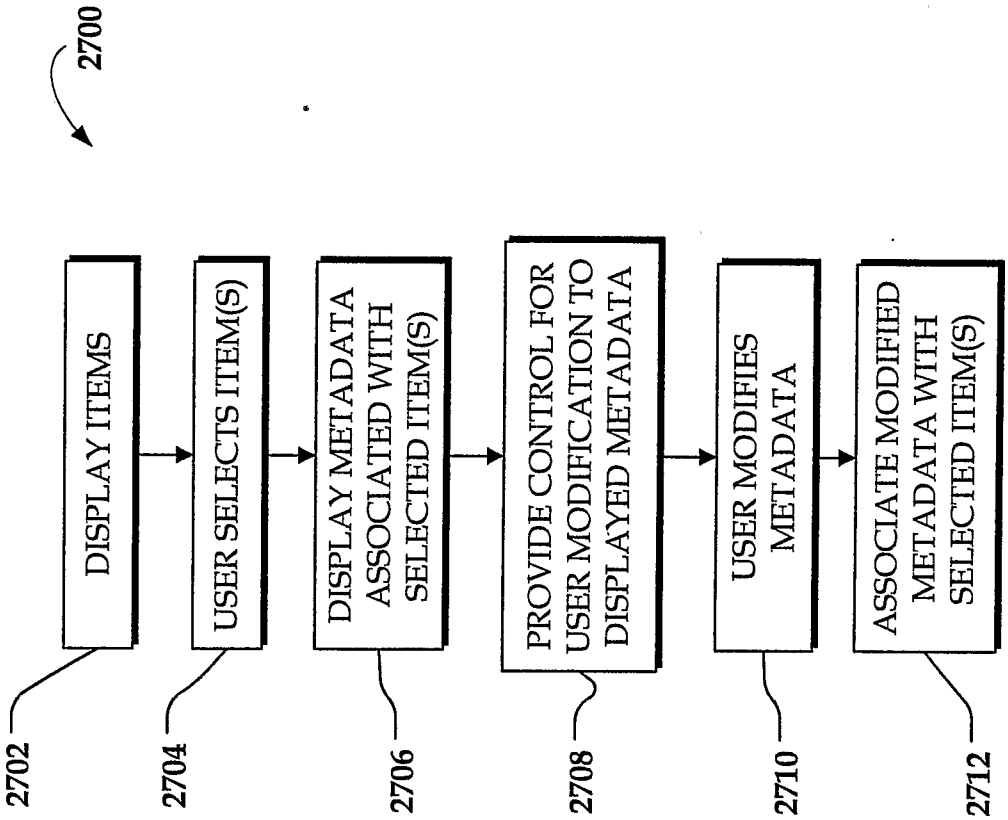

2700
DISPLAY ITEMS
USER SELECTS ITEM(S)
DISPLAY METADATA ASSOCIATED WITH SELECTED ITEM(S)
PROVIDE CONTROL FOR USER MODIFICATION TO DISPLAYED METADATA
USER MODIFIES METADATA
ASSOCIATE MODIFIED METADATA WITH SELECTED ITEM(S)
2702
2704
2706
2708
2710
2712

Fig.56.

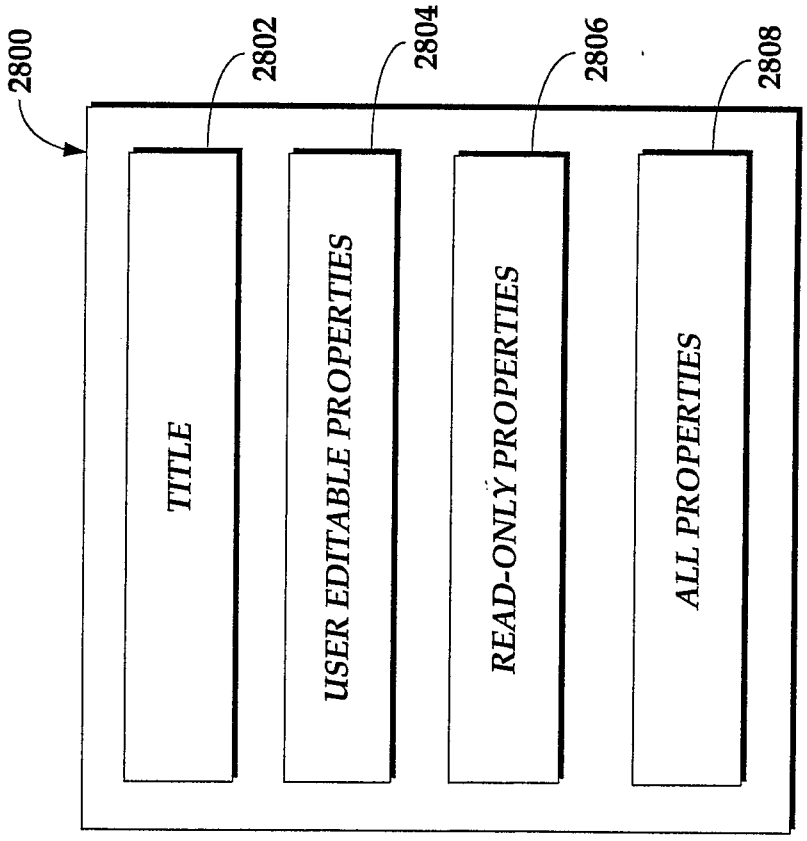
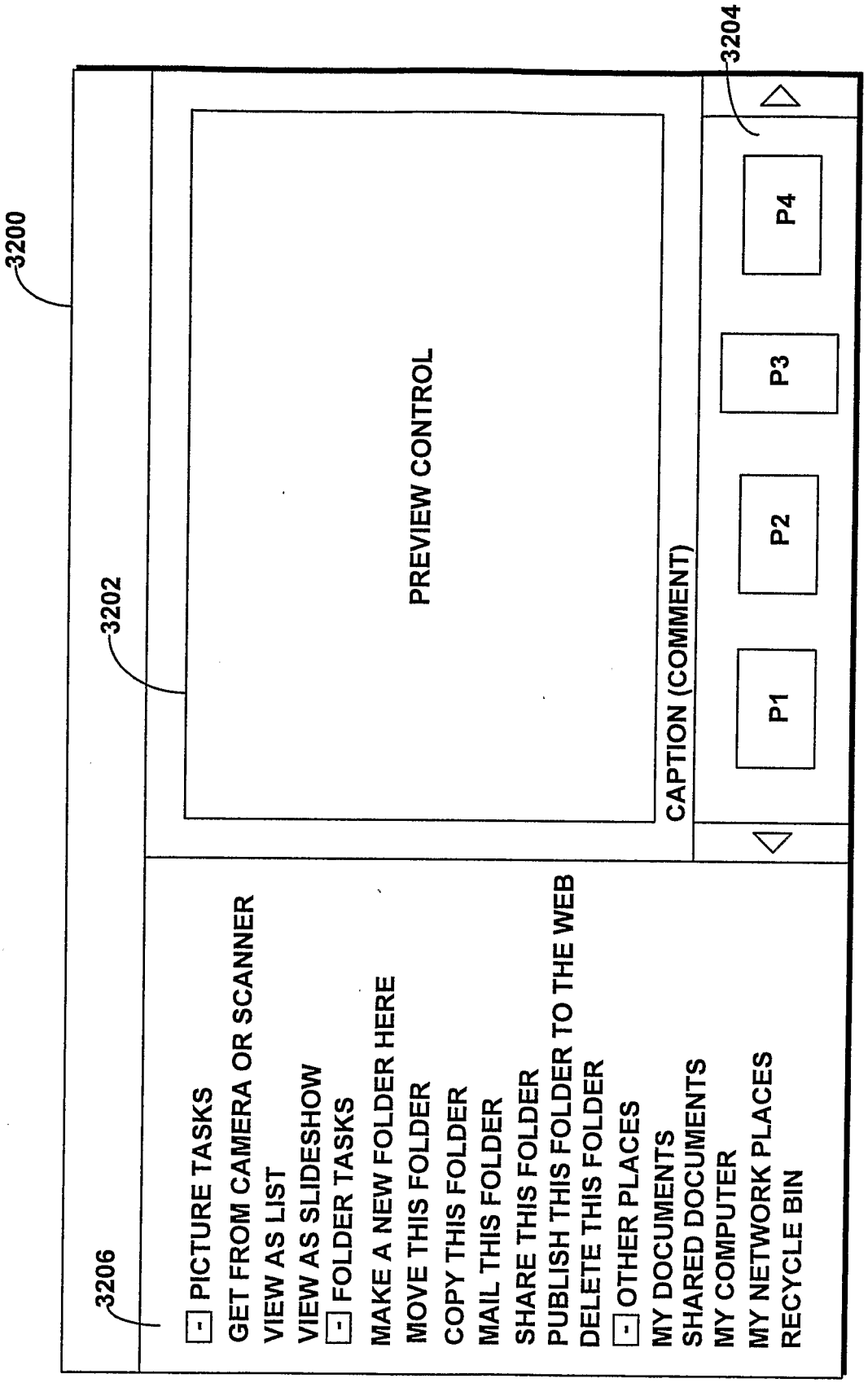

2800
2802
2804
2806
2808
TITLE
USER EDITABLE PROPERTIES
READ-ONLY PROPERTIES
ALL PROPERTIES

FIG.57.



(PRIOR ART)

Fig.58.

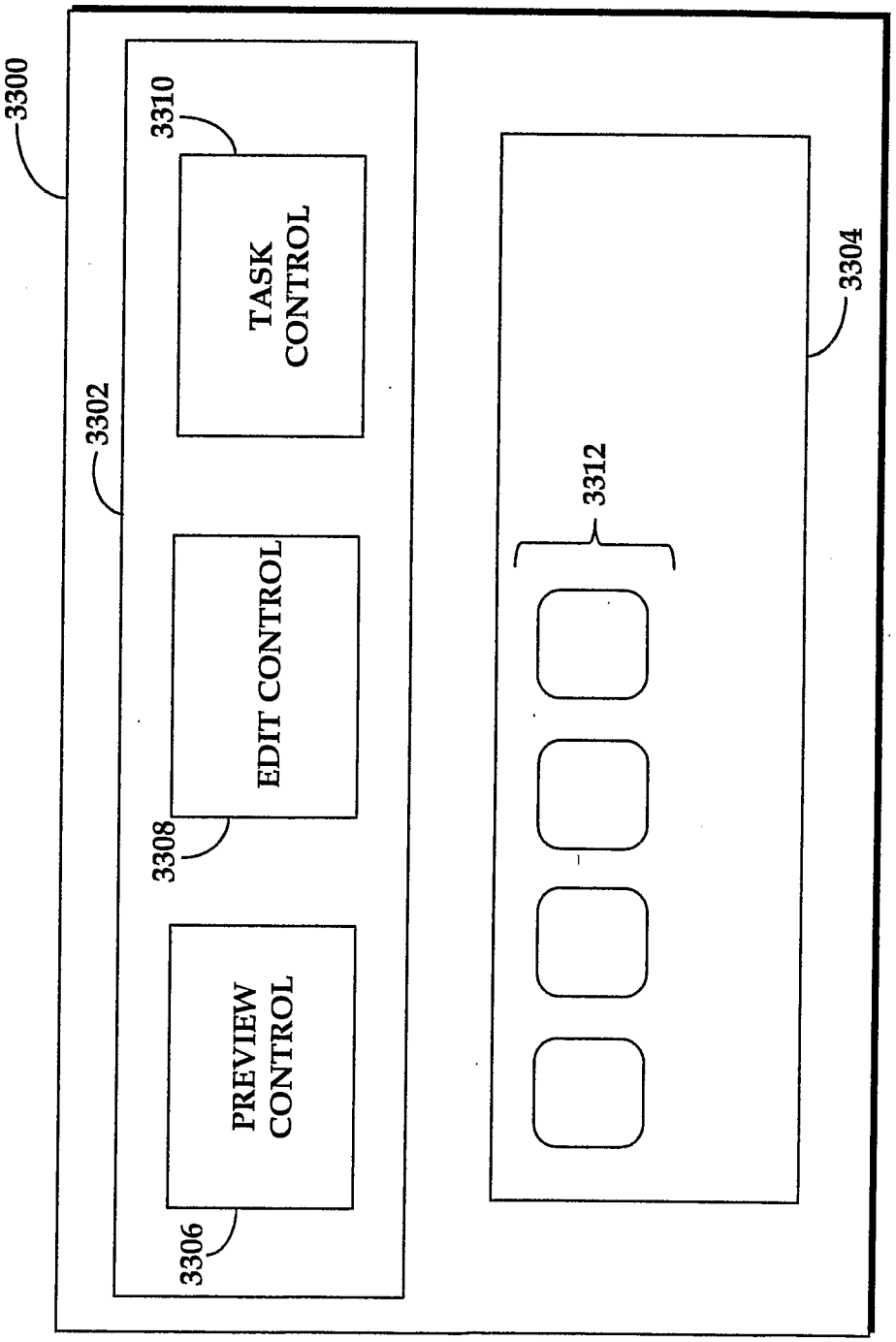

3300
3302
3304
3306
PREVIEW CONTROL
3308
EDIT CONTROL
3310
TASK CONTROL
3312

Fig.59.

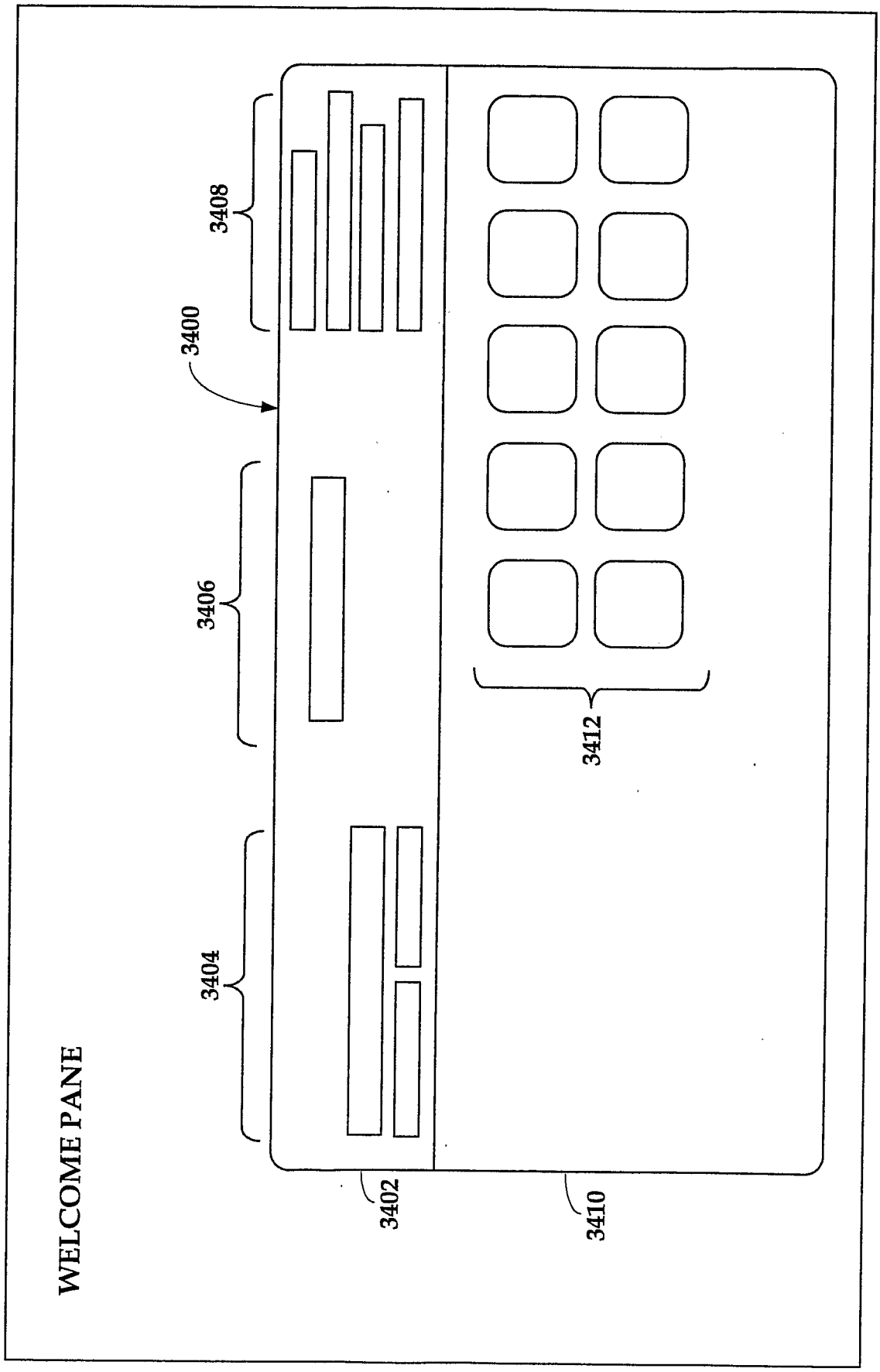


Fig.60.

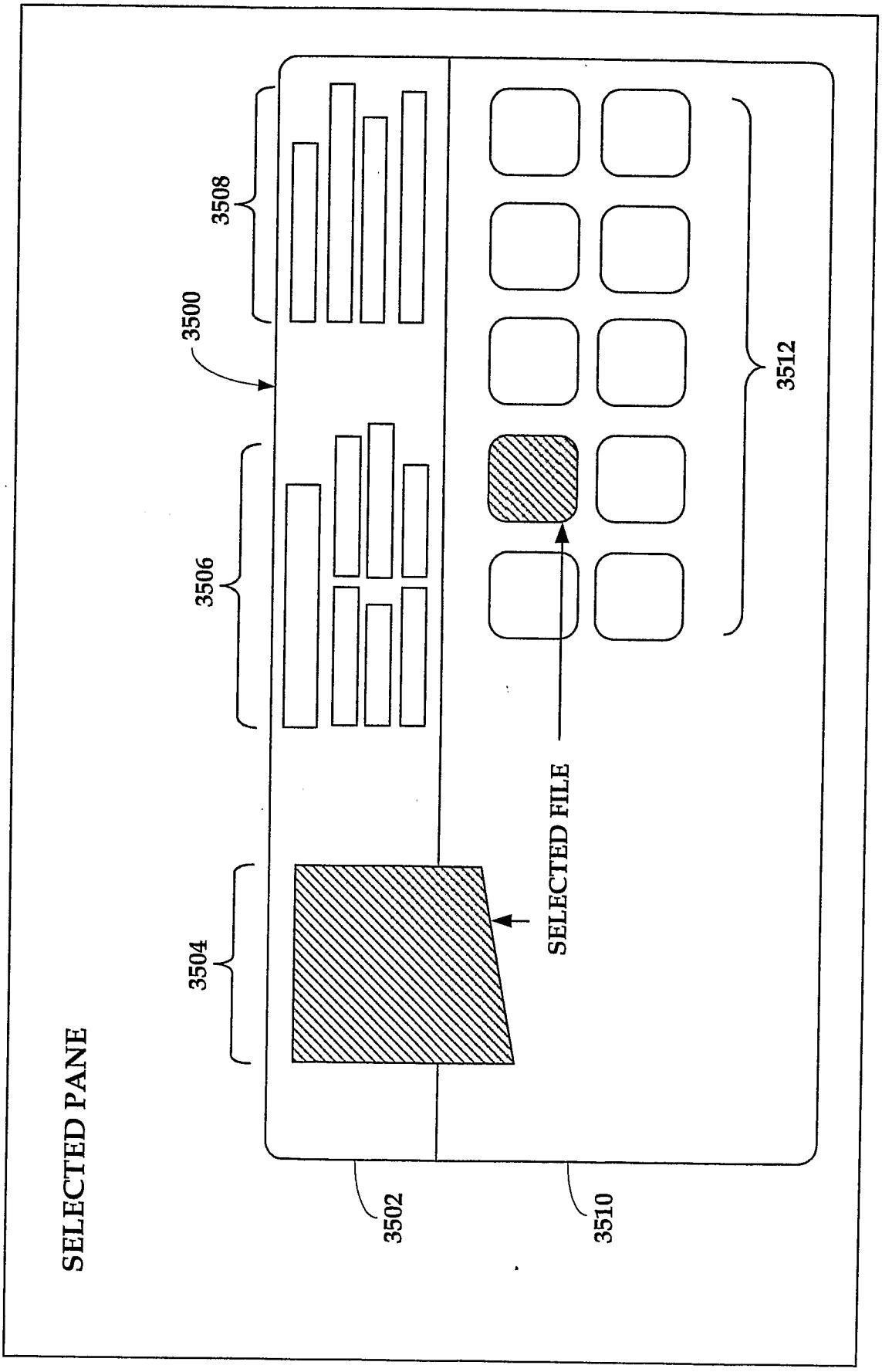

SELECTED PANE
3500
3502
3504
3506
3508
3510
3512
SELECTED FILE

Fig.61.

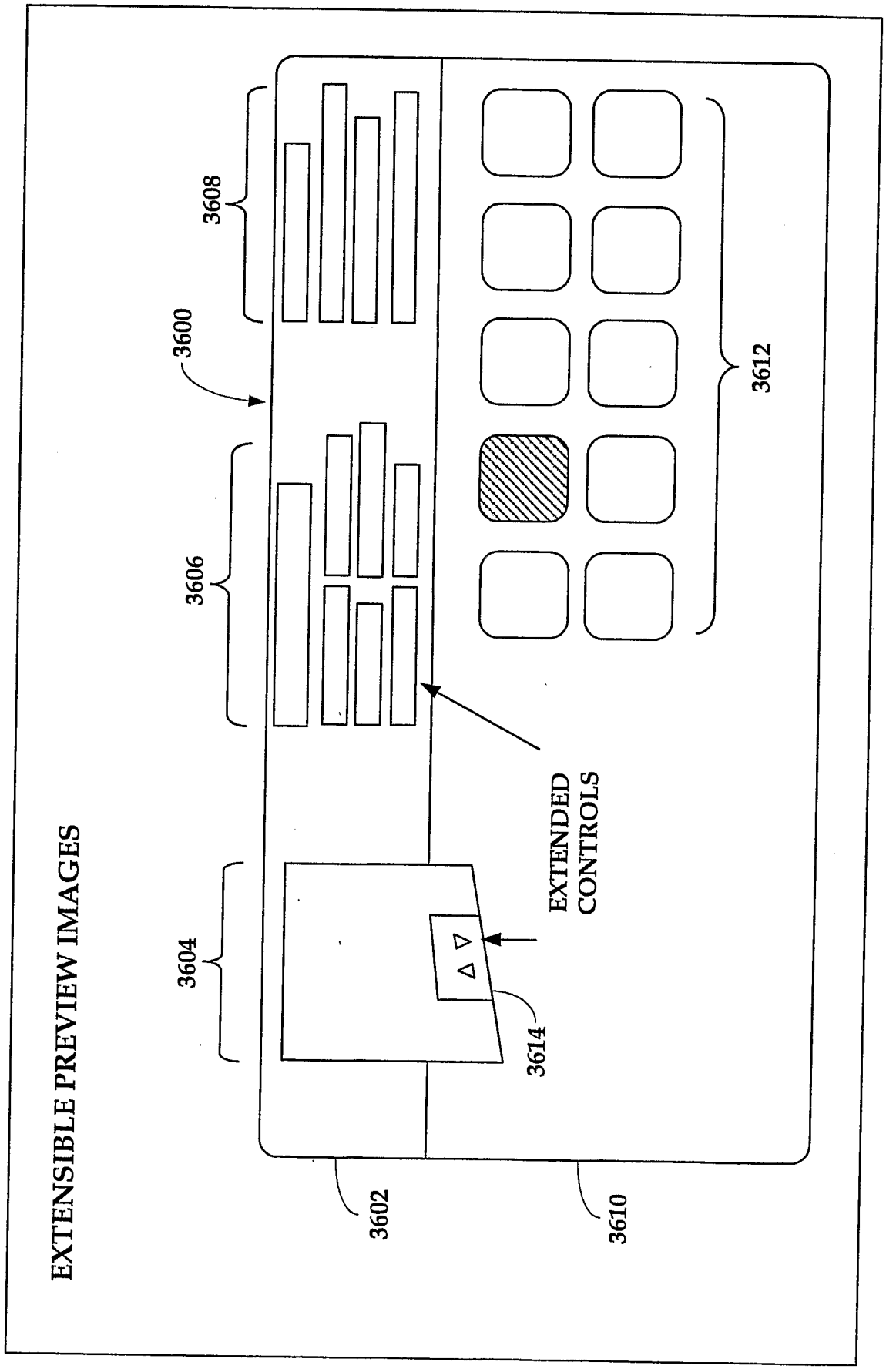

EXTENSIBLE PREVIEW IMAGES
3600
3602
3604
3606
3608
3610
3612
3614
EXTENDED CONTROLS

Fig.62.

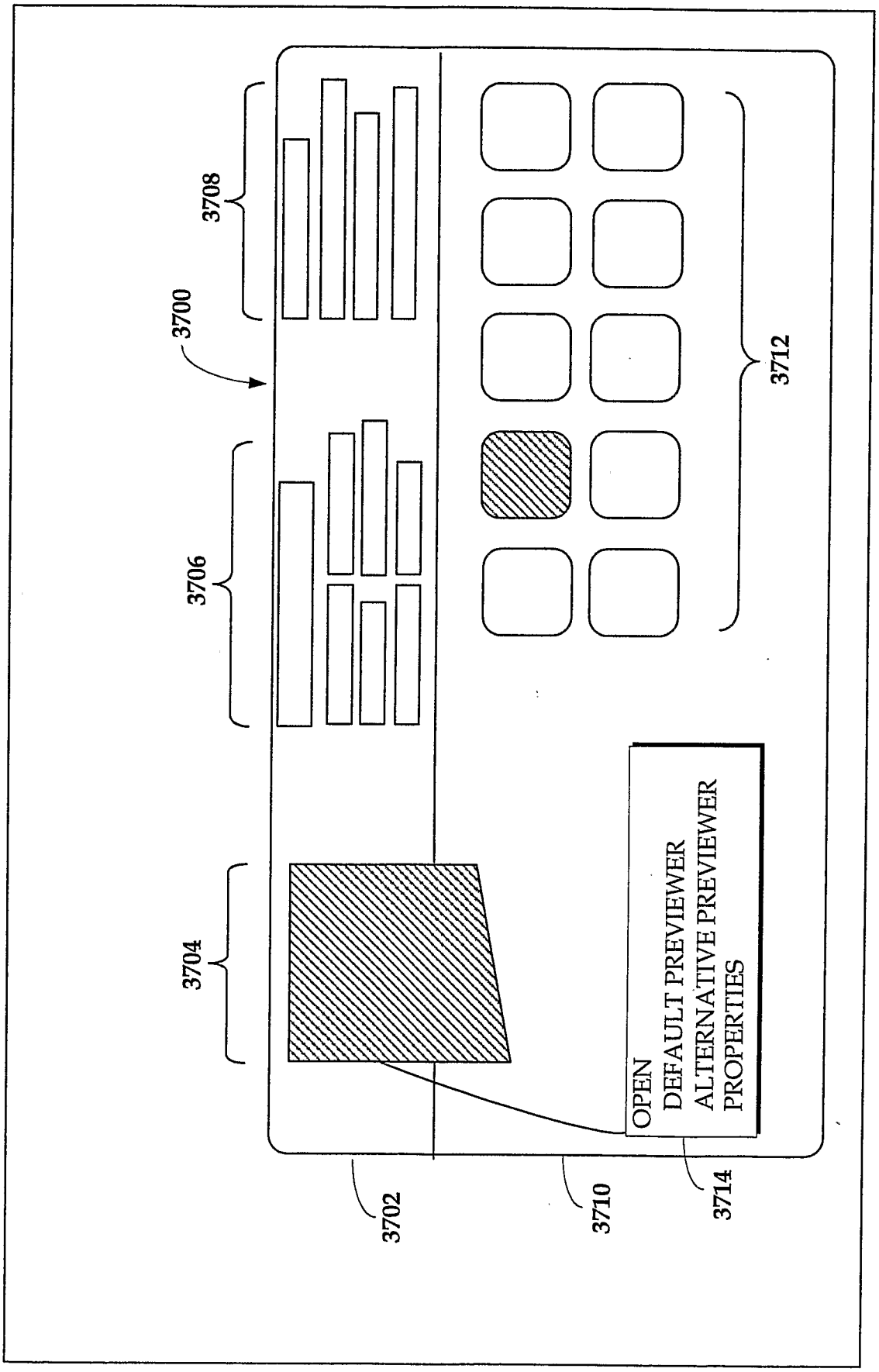

3700
3702
3704
3706
3708
3710
3712
3714
OPEN
DEFAULT PREVIEWER
ALTERNATIVE PREVIEWER
PROPERTIES

Fig.63.

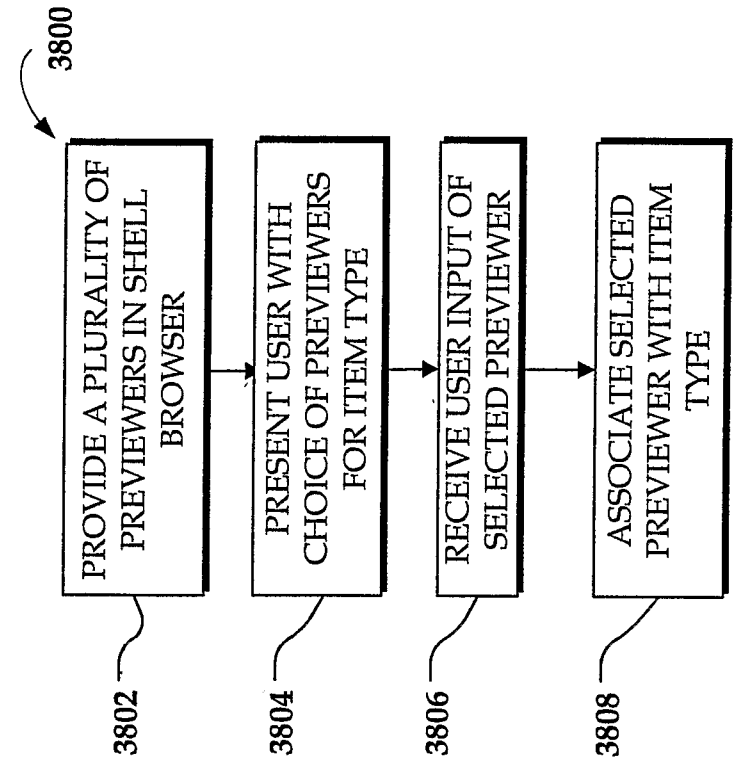

3800
PROVIDE A PLURALITY OF PREVIEWERS IN SHELL BROWSER
PRESENT USER WITH CHOICE OF PREVIEWERS FOR ITEM TYPE
RECEIVE USER INPUT OF SELECTED PREVIEWER
ASSOCIATE SELECTED PREVIEWER WITH ITEM TYPE
3802
3804
3806
3808

Fig.64A.

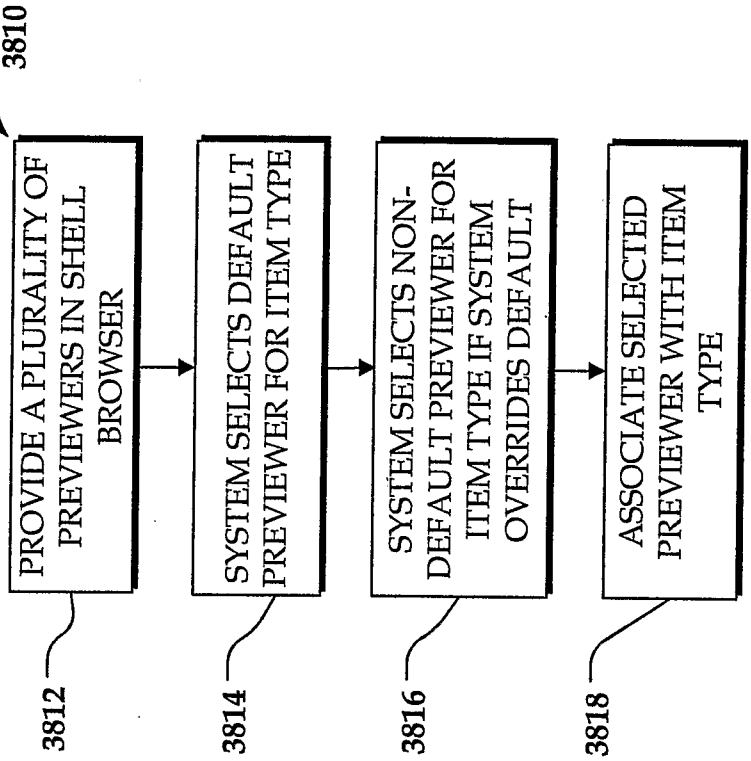

3810
PROVIDE A PLURALITY OF PREVIEWERS IN SHELL BROWSER
SYSTEM SELECTS DEFAULT PREVIEWER FOR ITEM TYPE
SYSTEM SELECTS NON-DEFAULT PREVIEWER FOR ITEM TYPE IF SYSTEM OVERRIDES DEFAULT
ASSOCIATE SELECTED PREVIEWER WITH ITEM TYPE
3812
3814
3816
3818

Fig.64B.

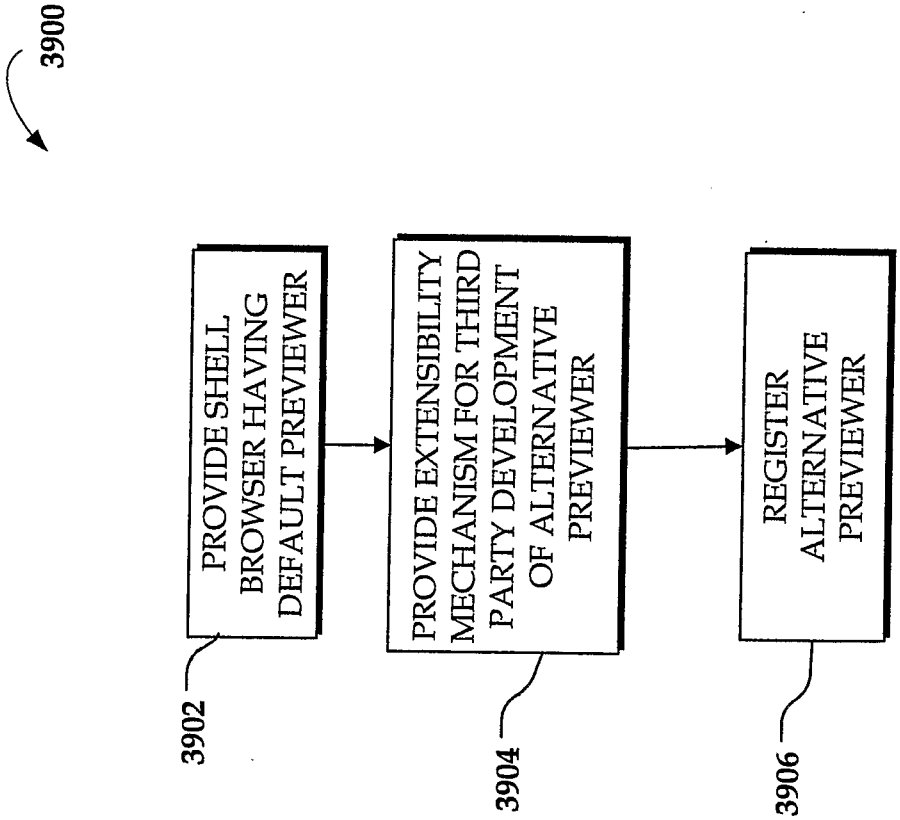

3900
PROVIDE SHELL BROWSER HAVING DEFAULT PREVIEWER
PROVIDE EXTENSIBILITY MECHANISM FOR THIRD PARTY DEVELOPMENT OF ALTERNATIVE PREVIEWER
REGISTER ALTERNATIVE PREVIEWER
3902
3904
3906

Fig.65.

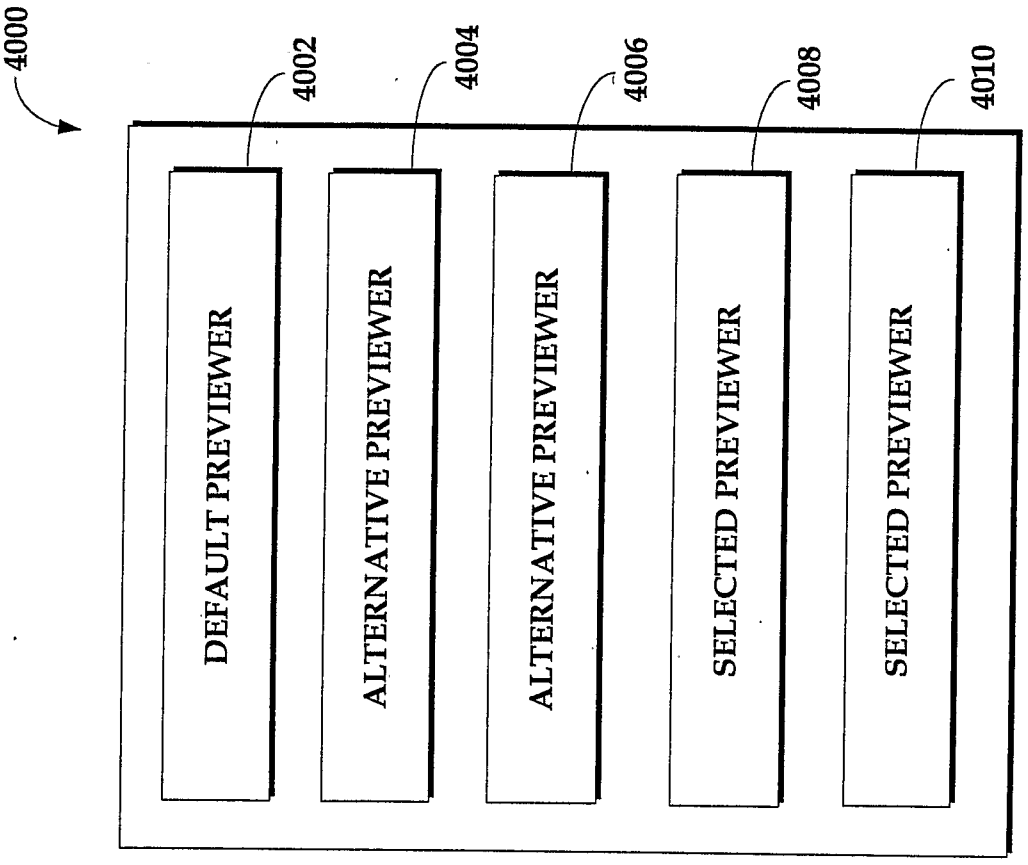

4000
4002
4004
4006
4008
4010
DEFAULT PREVIEWER
ALTERNATIVE PREVIEWER
ALTERNATIVE PREVIEWER
SELECTED PREVIEWER
SELECTED PREVIEWER

Fig.66.