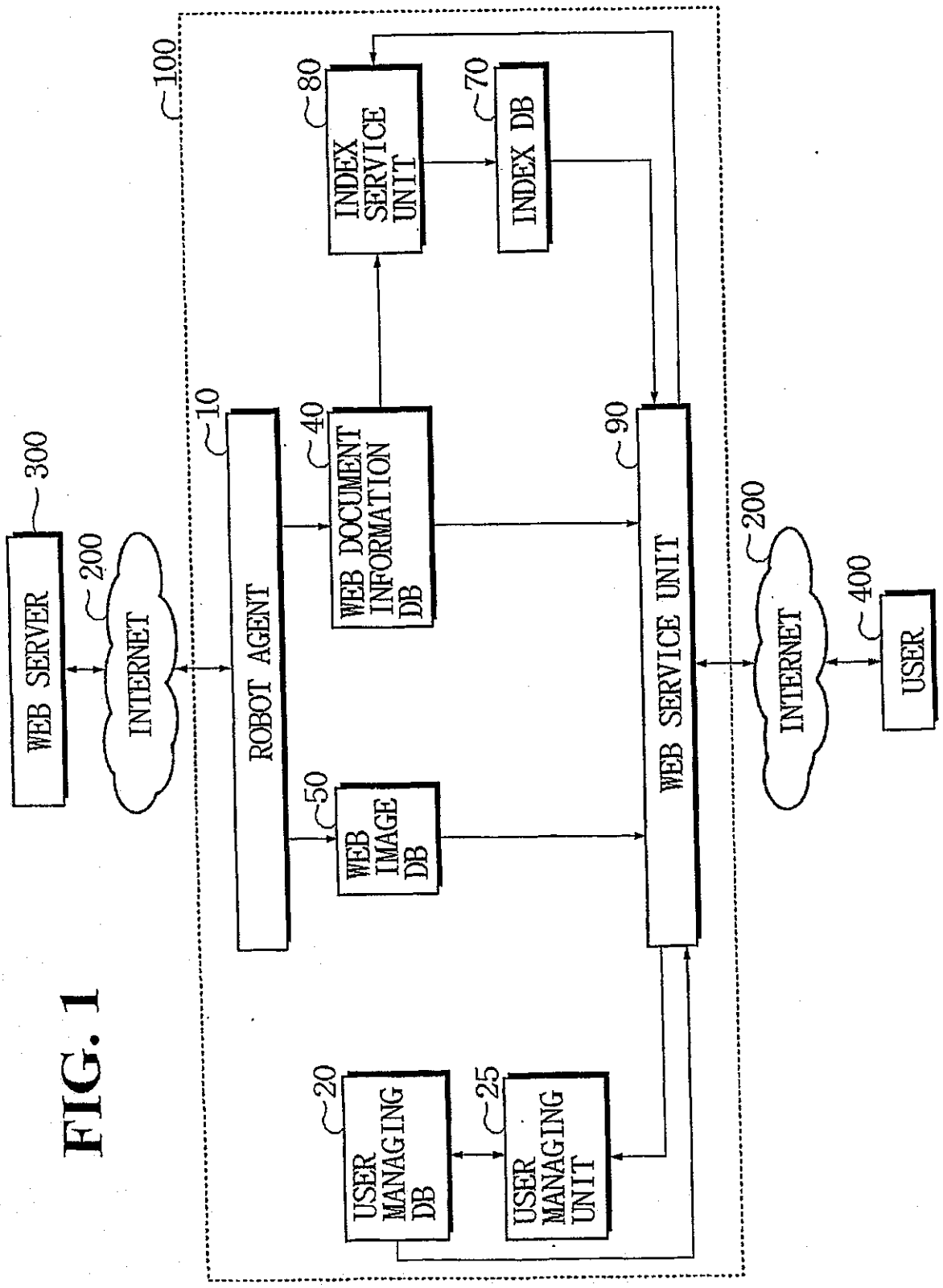

100
80
INDEX SERVICE UNIT
70
INDEX DB
10
40
WEB DOCUMENT INFORMATION DB
90
300
WEB SERVER
200
INTERNET
ROBOT AGENT
WEB SERVICE UNIT
200
INTERNET
400
USER
50
WEB IMAGE DB
20
USER MANAGING DB
25
USER MANAGING UNIT

FIG. 1

FIG. 2

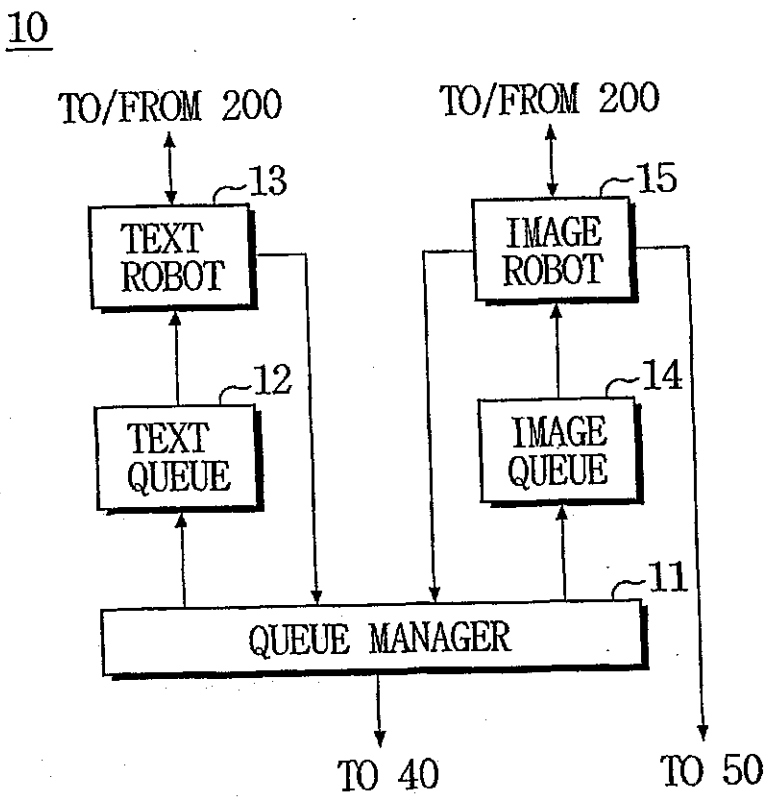

10
TO/FROM 200
TO/FROM 200
13
15
TEXT ROBOT
IMAGE ROBOT
12
14
TEXT QUEUE
IMAGE QUEUE
11
QUEUE MANAGER
TO 40
TO 50

FIG. 3

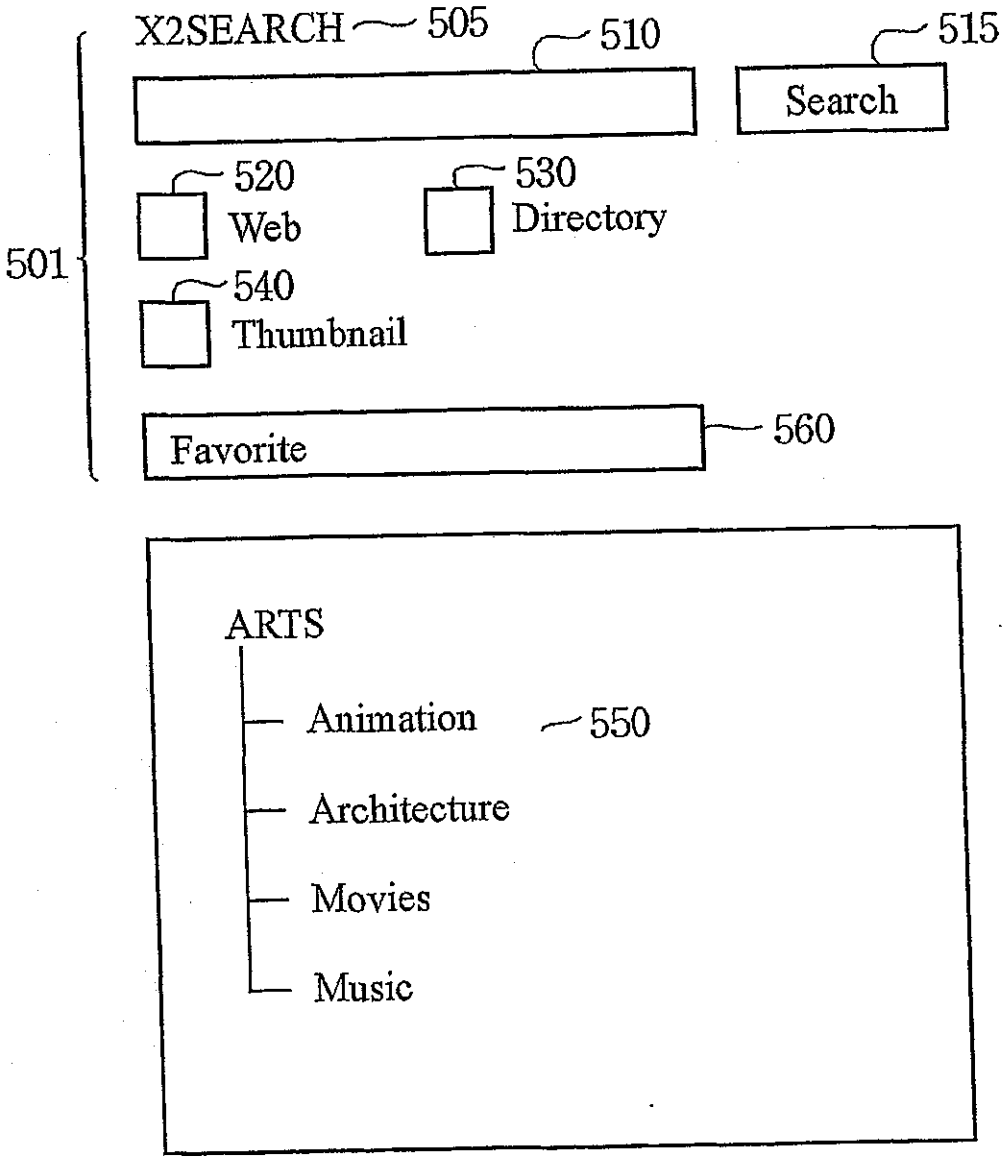

X2SEARCH
505
510
515
Search
520
Web
530
Directory
501
540
Thumbnail
Favorite
560
ARTS
Animation
550
Architecture
Movies
Music
Copyright 2000 by CCR Inc.
All Right Reserved
502

FIG. 4

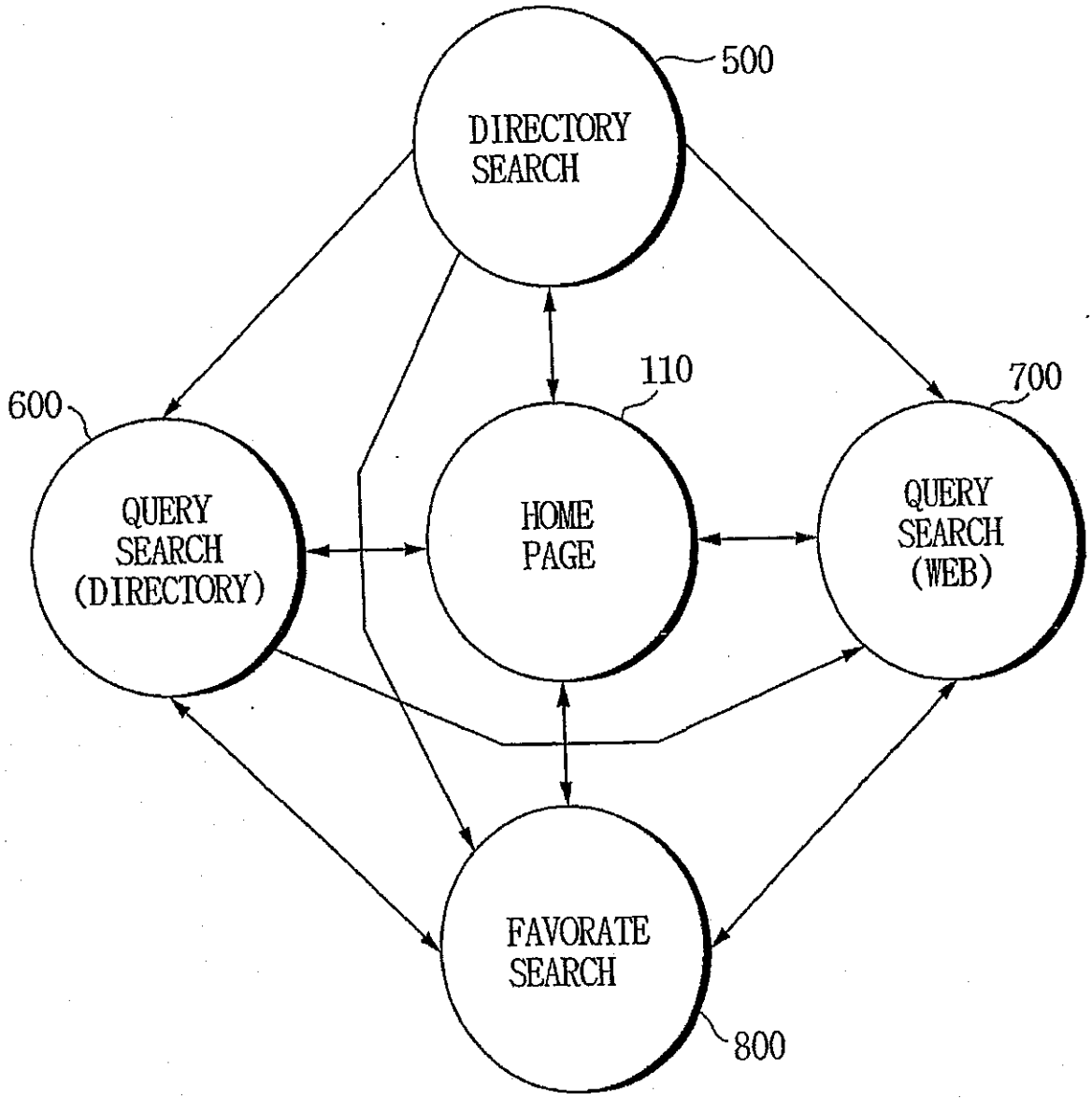

DIRECTORY SEARCH
500
110
600
700
QUERY SEARCH (DIRECTORY)
HOME PAGE
QUERY SEARCH (WEB)
FAVORATE SEARCH
800

FIG. 5

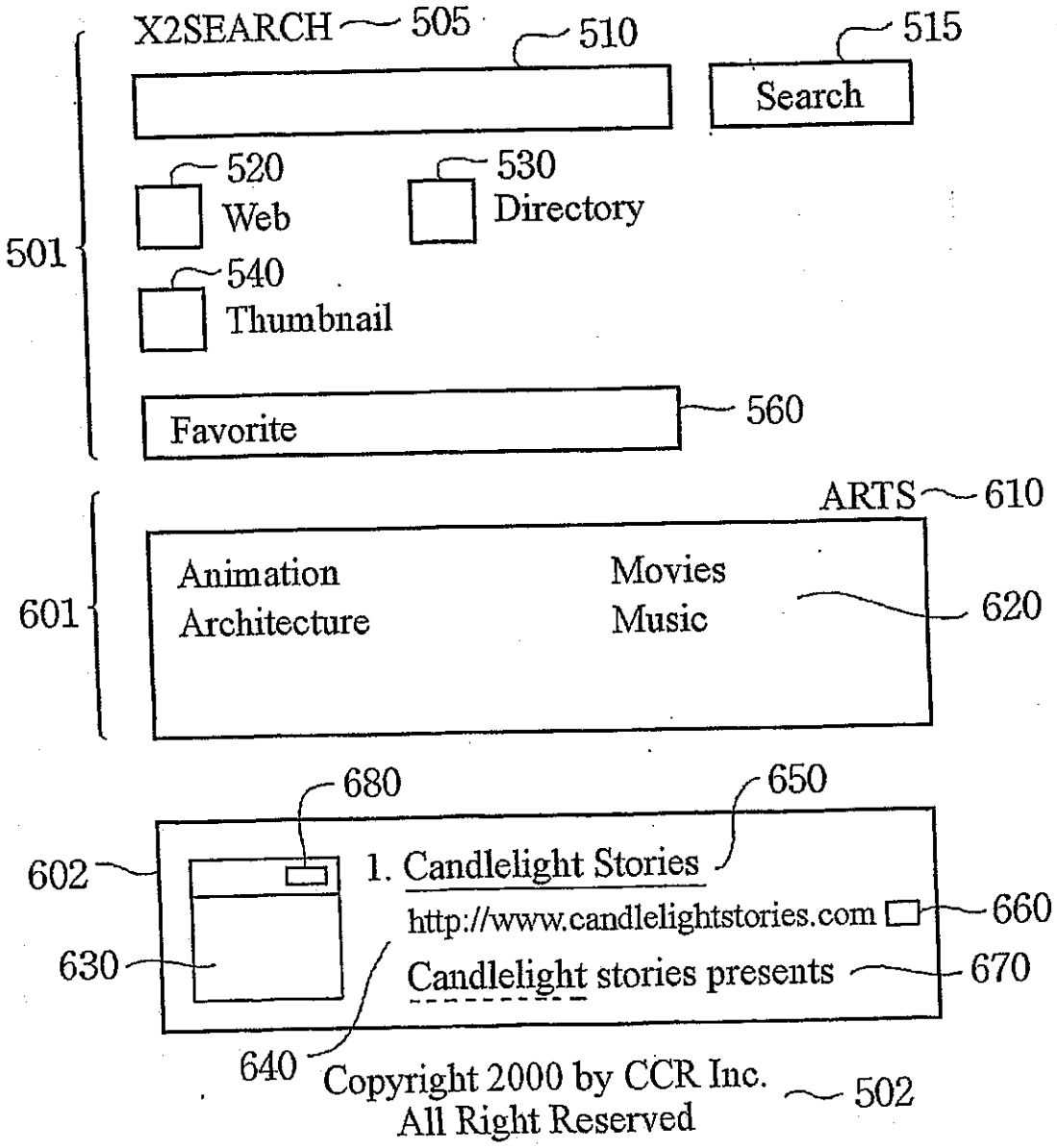

X2SEARCH
505
510
515
Search
520
Web
530
Directory
501
540
Thumbnail
Favorite
560
ARTS
610
601
Animation
Movies
Architecture
Music
620
680
650
602
1. Candlelight Stories
http://www.candlelightstories.com
660
630
Candlelight stories presents
670
640
Copyright 2000 by CCR Inc.
All Right Reserved
502

FIG. 6

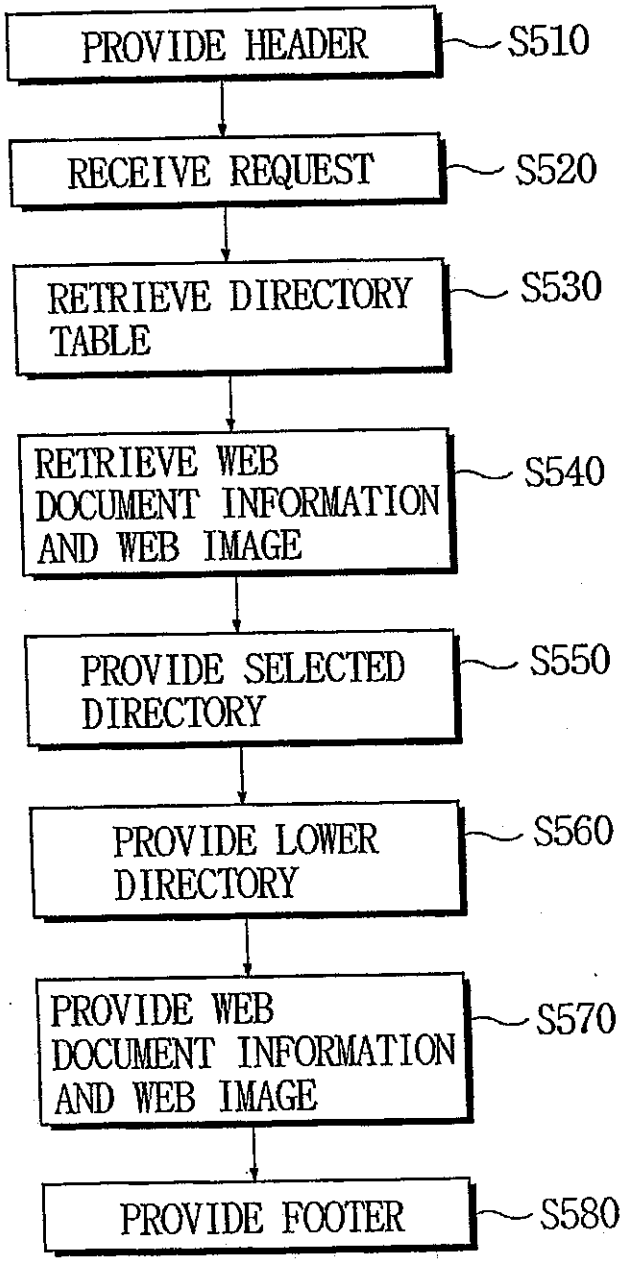

PROVIDE HEADER
S510
RECEIVE REQUEST
S520
RETRIEVE DIRECTORY TABLE
S530
RETRIEVE WEB DOCUMENT INFORMATION AND WEB IMAGE
S540
PROVIDE SELECTED DIRECTORY
S550
PROVIDE LOWER DIRECTORY
S560
PROVIDE WEB DOCUMENT INFORMATION AND WEB IMAGE
S570
PROVIDE FOOTER
S580

FIG. 7

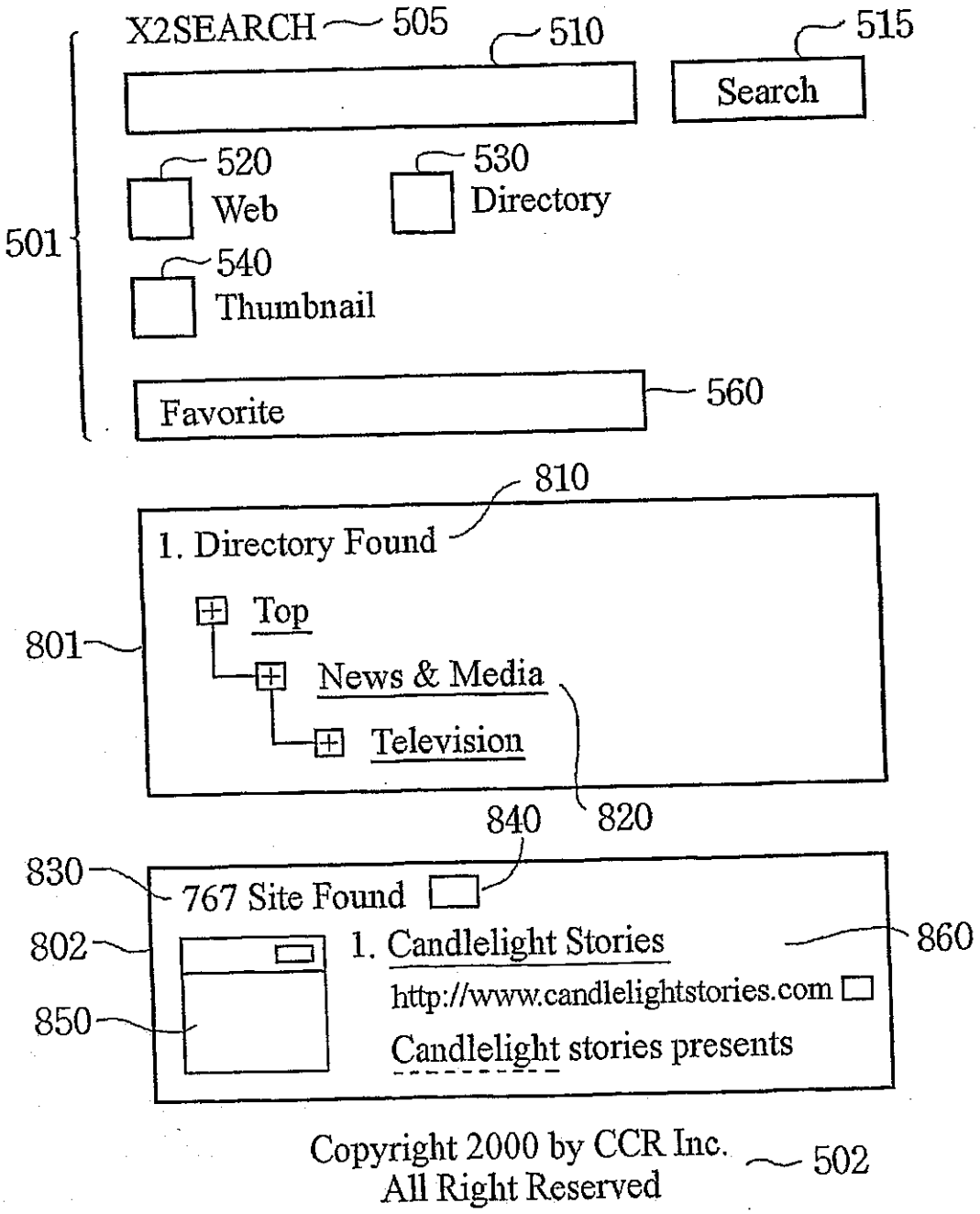

X2SEARCH
505
510
515
Search
520
Web
530
Directory
501
540
Thumbnail
Favorite
560
810
1. Directory Found
Top
801
News & Media
Television
840
820
830
767 Site Found
802
1. Candlelight Stories
860
http://www.candlelightstories.com
850
Candlelight stories presents
Copyright 2000 by CCR Inc.
All Right Reserved
502

FIG. 8

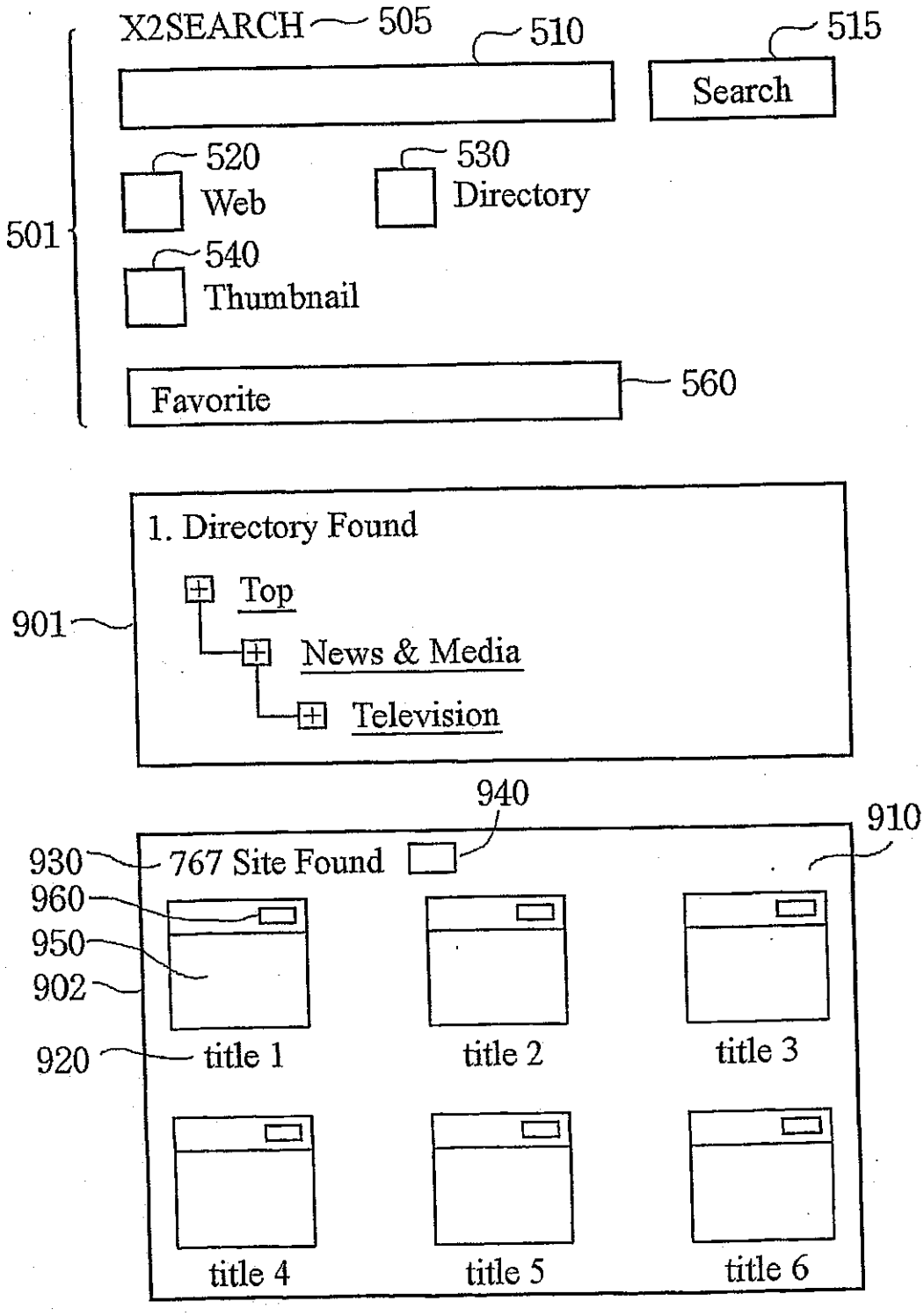

X2SEARCH
505
510
515
Search
520
Web
530
Directory
501
540
Thumbnail
Favorite
560
1. Directory Found
Top
News & Media
Television
901
940
910
930
767 Site Found
960
950
902
920
title 1
title 2
title 3
title 4
title 5
title 6
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502

FIG. 9

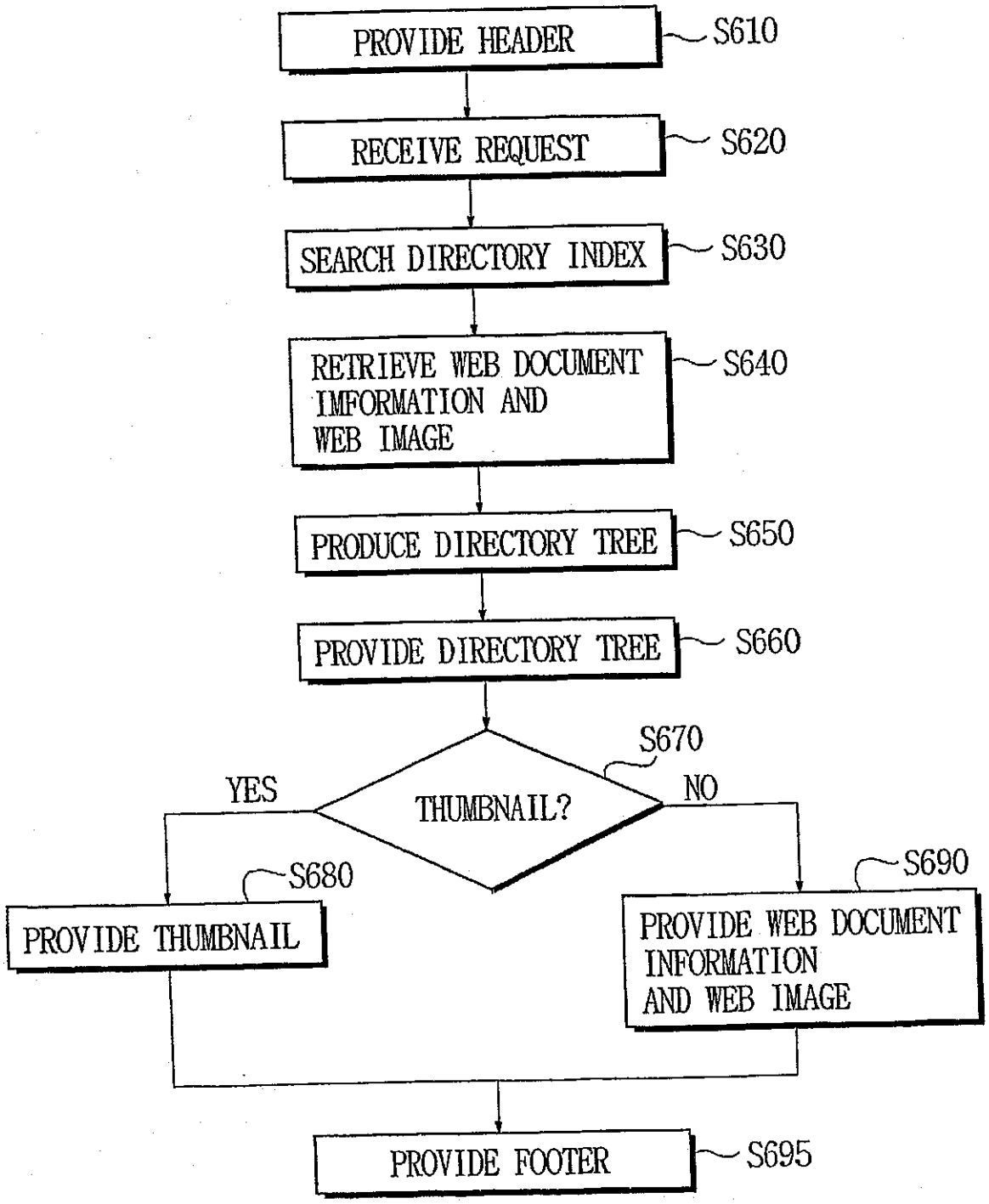

PROVIDE HEADER
S610
RECEIVE REQUEST
S620
SEARCH DIRECTORY INDEX
S630
RETRIEVE WEB DOCUMENT IMFORMATION AND WEB IMAGE
S640
PRODUCE DIRECTORY TREE
S650
PROVIDE DIRECTORY TREE
S660
S670
THUMBNAIL?
YES
NO
S680
PROVIDE THUMBNAIL
S690
PROVIDE WEB DOCUMENT INFORMATION AND WEB IMAGE
PROVIDE FOOTER
S695

FIG. 10

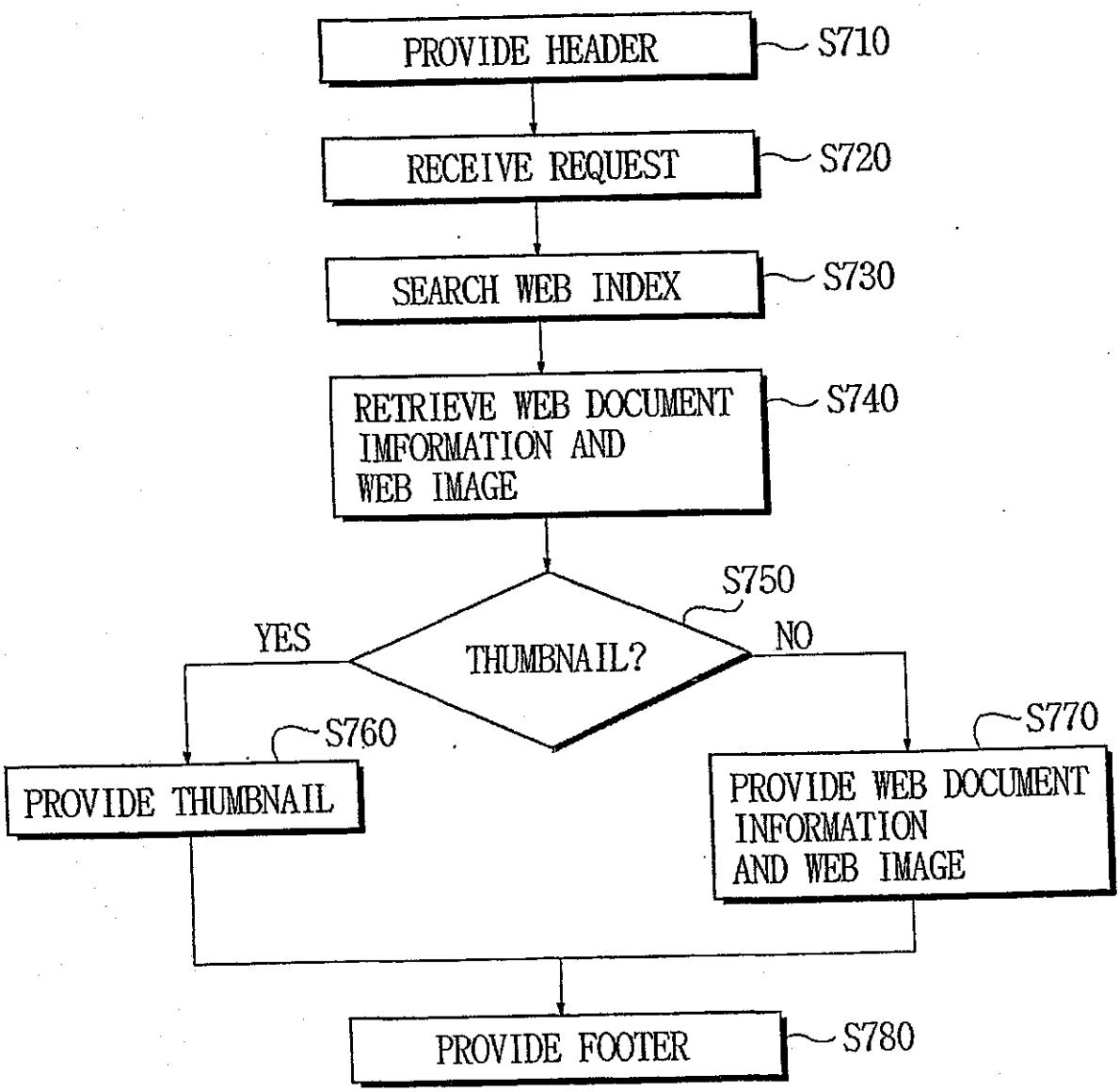

PROVIDE HEADER
S710
RECEIVE REQUEST
S720
SEARCH WEB INDEX
S730
RETRIEVE WEB DOCUMENT IMFORMATION AND WEB IMAGE
S740
S750
THUMBNAIL?
YES
NO
S760
PROVIDE THUMBNAIL
S770
PROVIDE WEB DOCUMENT INFORMATION AND WEB IMAGE
PROVIDE FOOTER
S780

FIG. 11

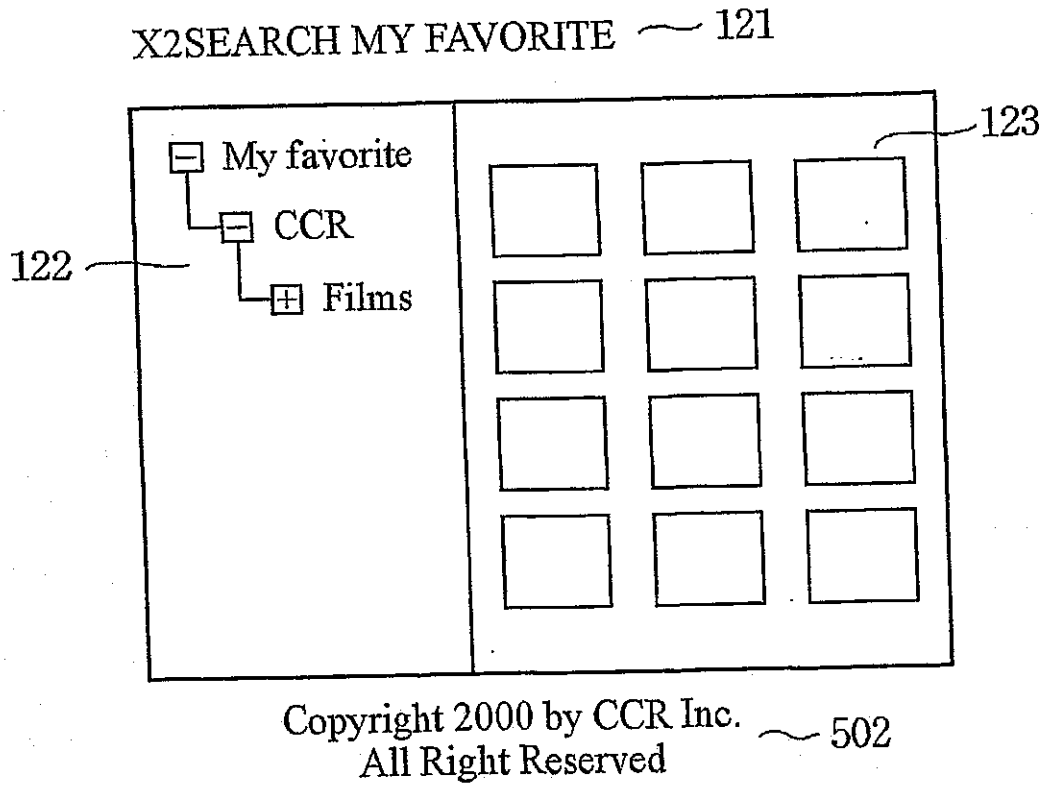

X2SEARCH MY FAVORITE
121
123
My favorite
CCR
Films
122
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502

FIG. 12

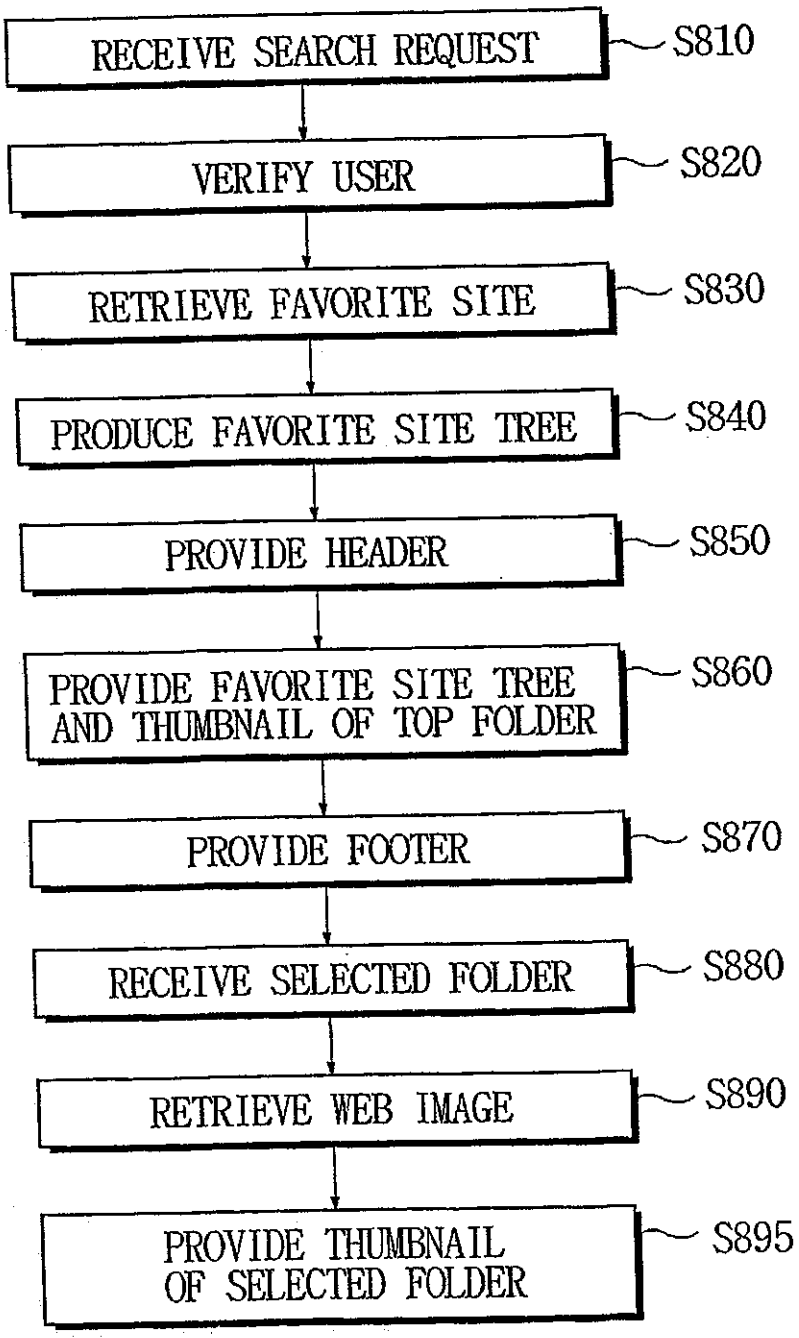

RECEIVE SEARCH REQUEST
S810
VERIFY USER
S820
RETRIEVE FAVORITE SITE
S830
PRODUCE FAVORITE SITE TREE
S840
PROVIDE HEADER
S850
PROVIDE FAVORITE SITE TREE AND THUMBNAIL OF TOP FOLDER
S860
PROVIDE FOOTER
S870
RECEIVE SELECTED FOLDER
S880
RETRIEVE WEB IMAGE
S890
PROVIDE THUMBNAIL OF SELECTED FOLDER
S895

FIG. 13

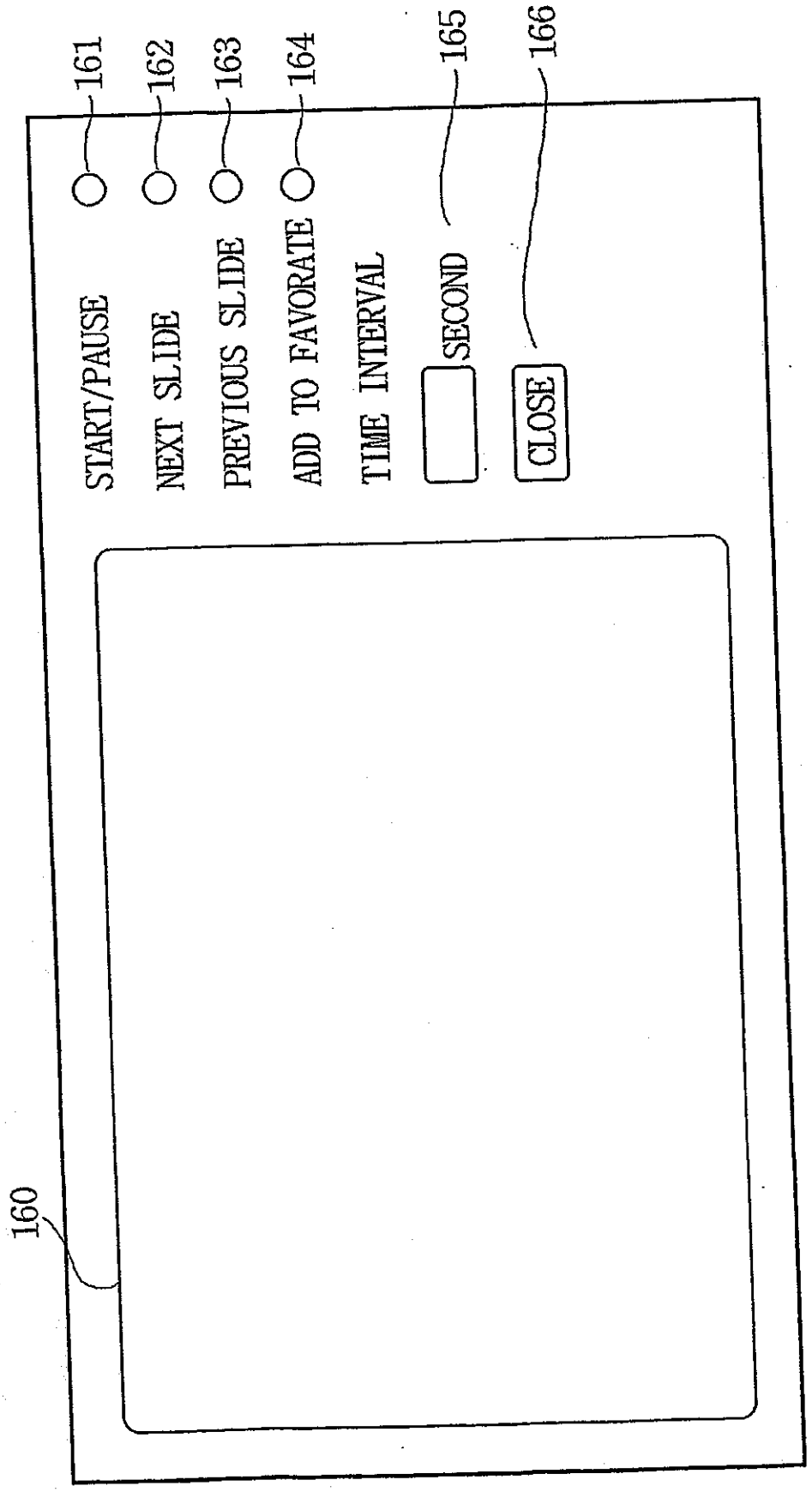

161
162
163
164
165
166
START/PAUSE
NEXT SLIDE
PREVIOUS SLIDE
ADD TO FAVORATE
TIME INTERVAL
SECOND
CLOSE
160

FIG. 14

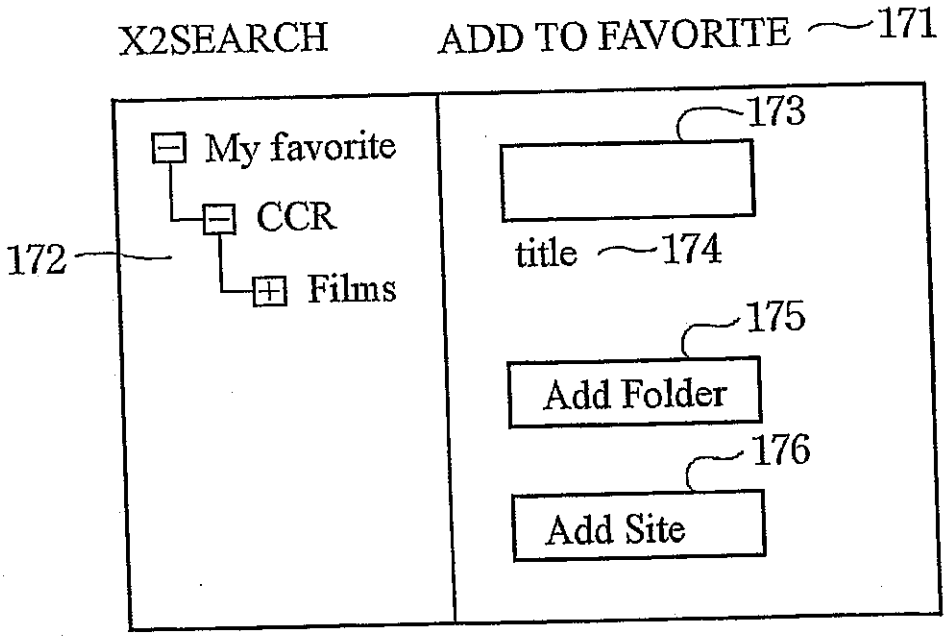
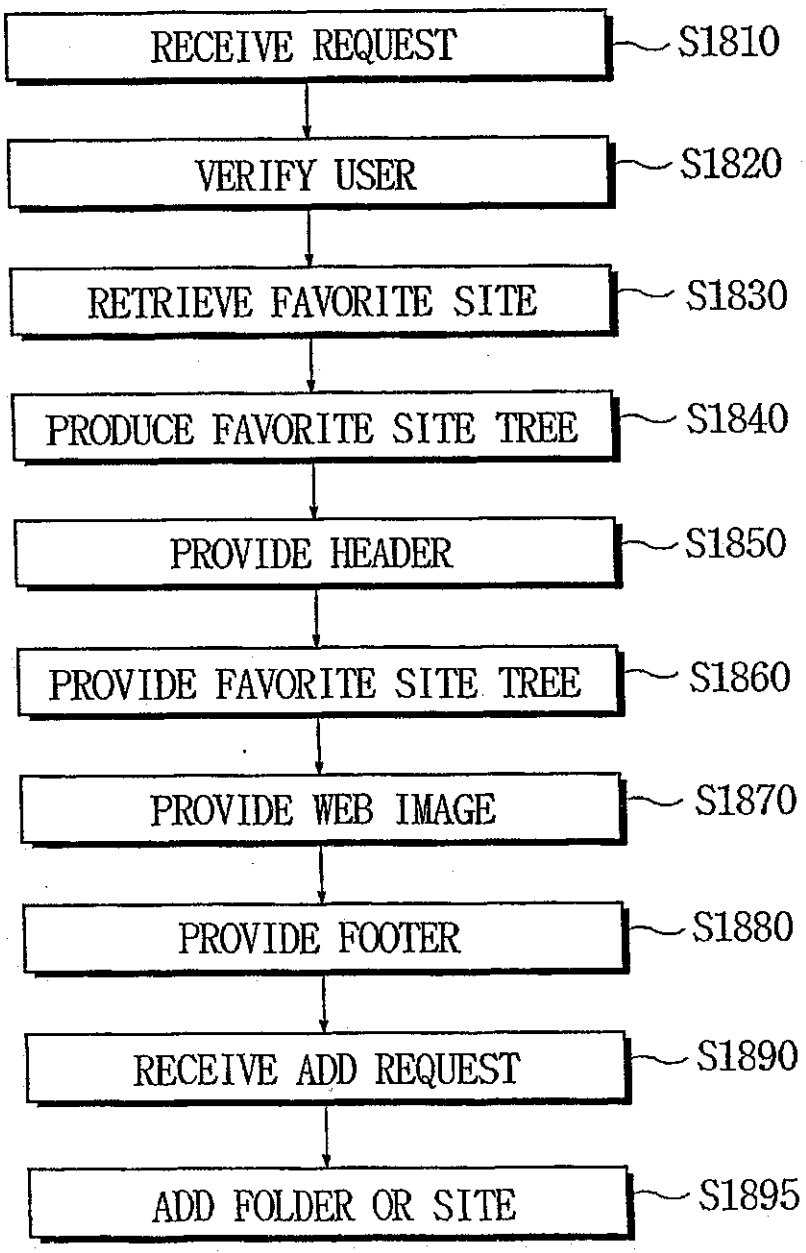

X2SEARCH
ADD TO FAVORITE
171
My favorite
CCR
Films
172
173
title
174
175
Add Folder
176
Add Site
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502

FIG. 15


RECEIVE REQUEST
S1810
VERIFY USER
S1820
RETRIEVE FAVORITE SITE
S1830
PRODUCE FAVORITE SITE TREE
S1840
PROVIDE HEADER
S1850
PROVIDE FAVORITE SITE TREE
S1860
PROVIDE WEB IMAGE
S1870
PROVIDE FOOTER
S1880
RECEIVE ADD REQUEST
S1890
ADD FOLDER OR SITE
S1895