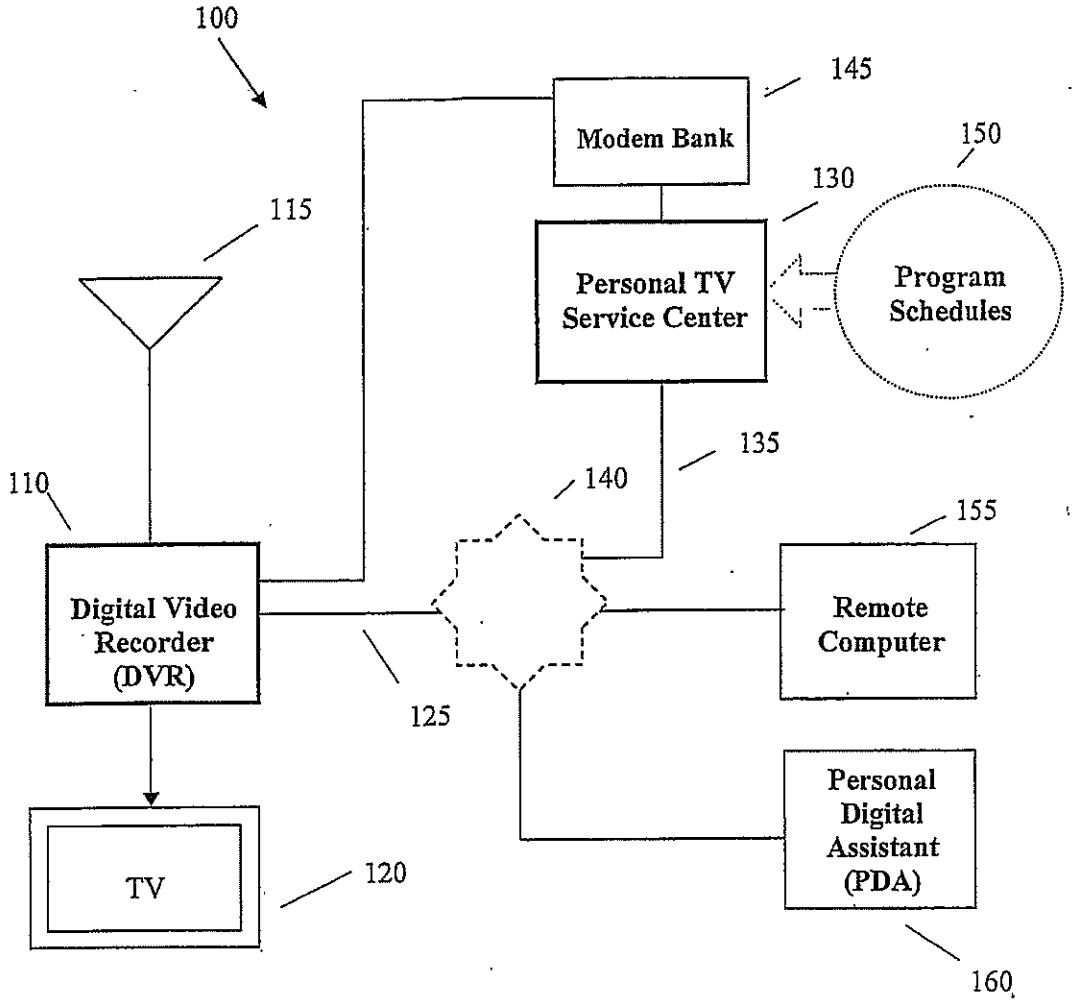

100
145
Modem Bank
150
130
115
Personal TV Service Center
Program Schedules
135
110
140
155
Digital Video Recorder (DVR)
Remote Computer
125
Personal Digital Assistant (PDA)
TV
120
160

Fig. 1

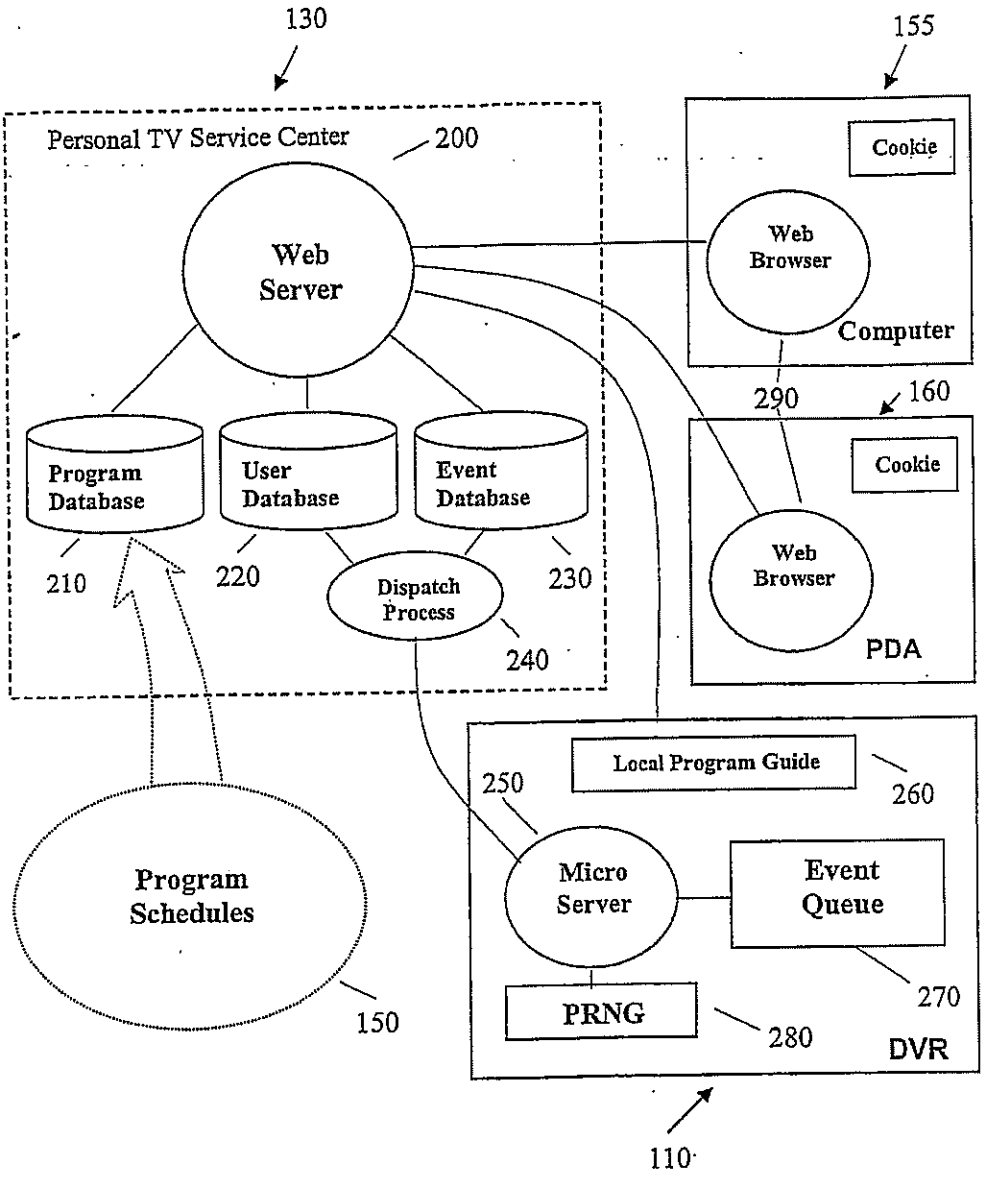

130
155
Personal TV Service Center
200
Web Server
Cookie
Web Browser
Computer
290
160
Program Database
User Database
Event Database
Cookie
Web Browser
PDA
210
220
Dispatch Process
230
240
Local Program Guide
250
260
Micro Server
Event Queue
Program Schedules
PRNG
270
280
DVR
150
110

Fig. 2

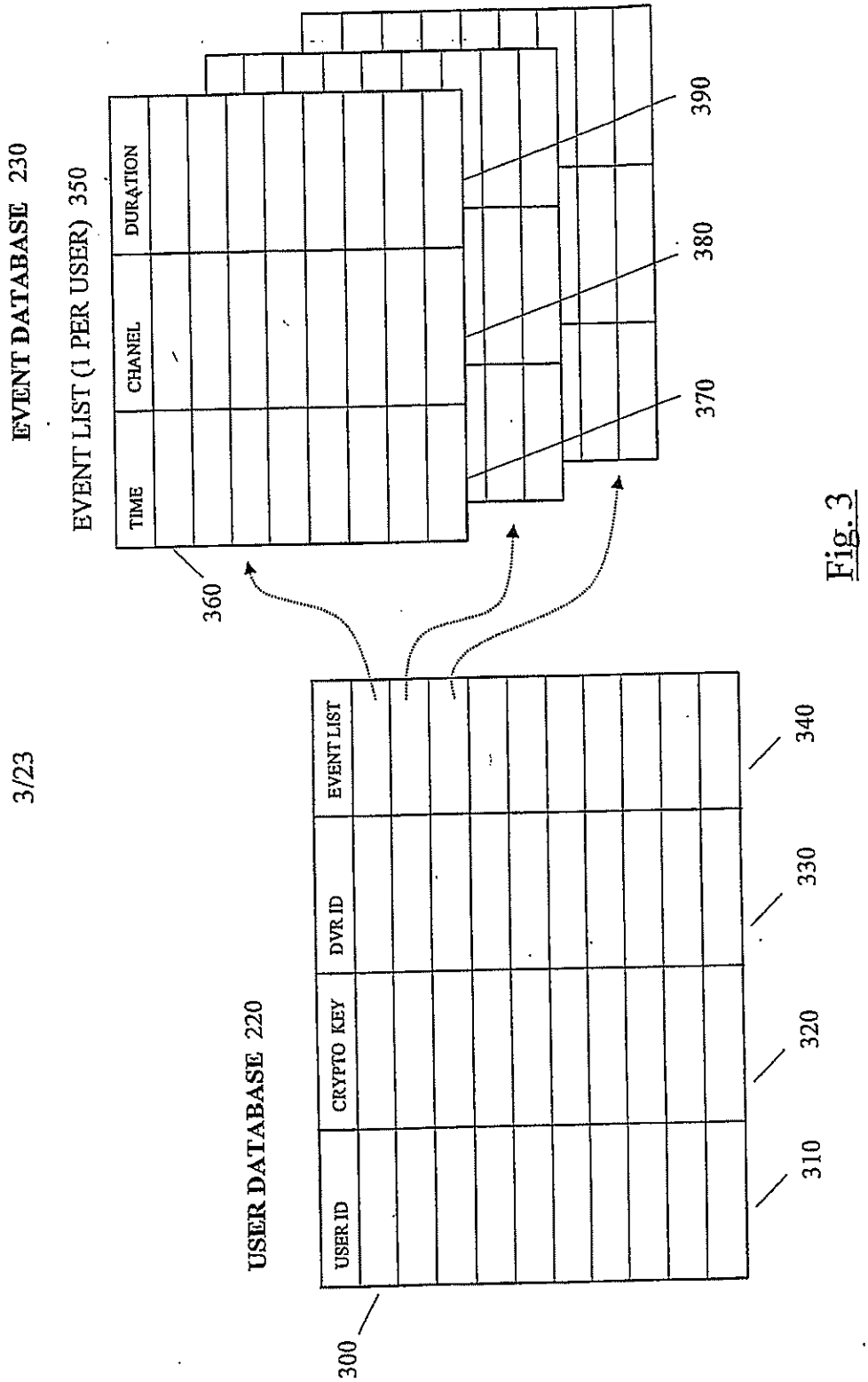

EVENT DATABASE 230
EVENT LIST (1 PER USER) 350
TIME
CHANEL
DURATION
360
370
380
390
USER DATABASE 220
USER ID
CRYPTO KEY
DVR ID
EVENT LIST
300
310
320
330
340

Fig. 3

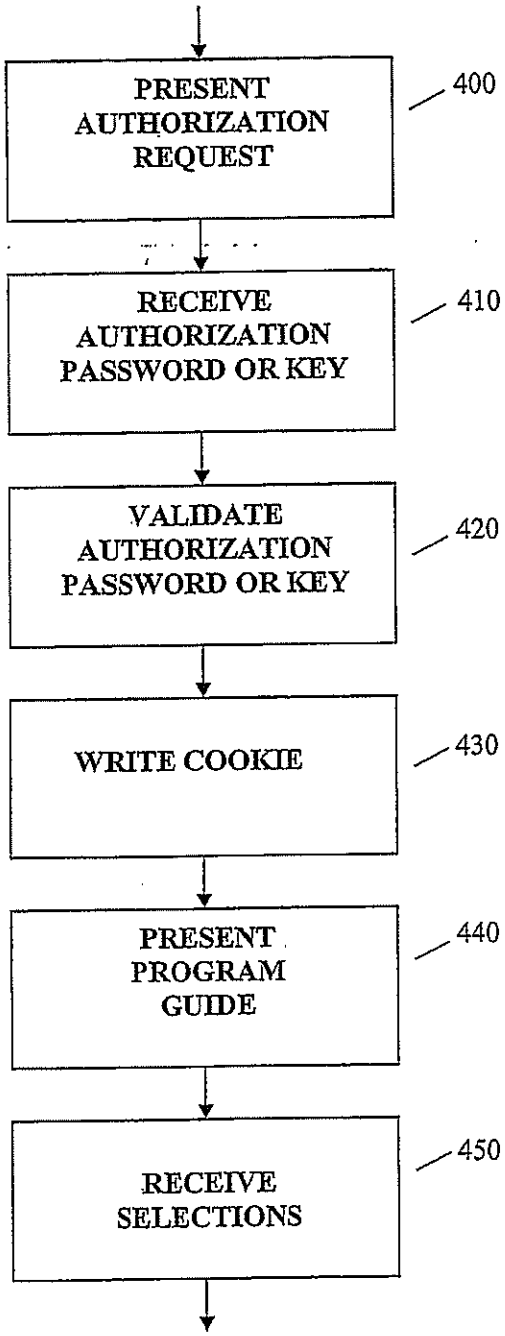

PRESENT AUTHORIZATION REQUEST
400
RECEIVE AUTHORIZATION PASSWORD OR KEY
410
VALIDATE AUTHORIZATION PASSWORD OR KEY
420
WRITE COOKIE
430
PRESENT PROGRAM GUIDE
440
RECEIVE SELECTIONS
450

Fig. 4

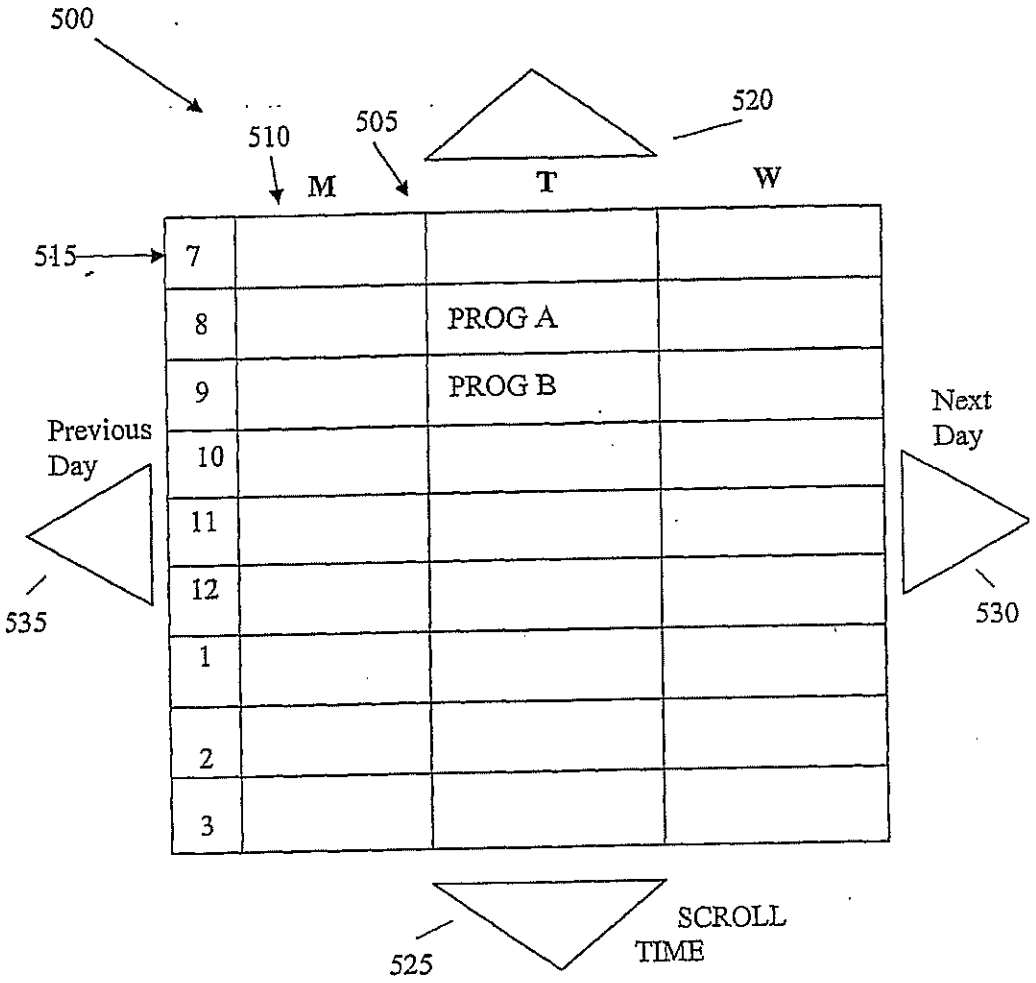

500
510
505
520
M
T
W
515
7
8
PROG A
9
PROG B
10
11
12
1
2
3
Previous Day
Next Day
535
530
525
SCROLL TIME

Fig. 5


TiVo
Now Showing
The Simpsons Fri 7/9
The Simpsons Fri 7/9
Variety Show Sun 6/27
Inside Washington Sun 6/27
The Mask of Zorro Sat 6/26
Life of Brian Sat 6/26
Neil Simon's The Odd Couple II Sat 7/10
Radio Days Sat 7/10

Fig. 6

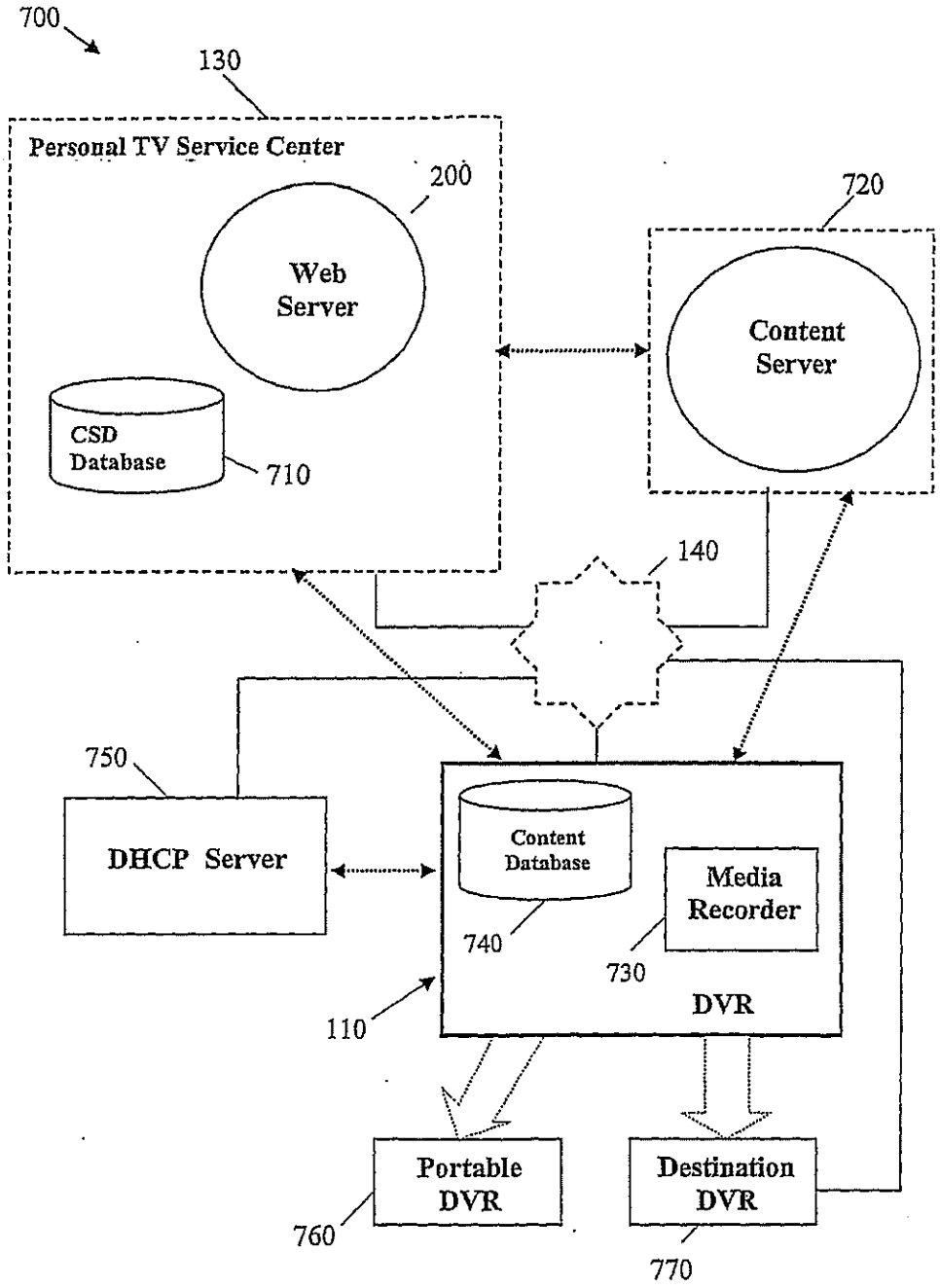

700
130
Personal TV Service Center
200
Web Server
CSD Database
710
720
Content Server
140
750
DHCP Server
Content Database
740
Media Recorder
730
DVR
110
Portable DVR
760
Destination DVR
770

Fig. 7

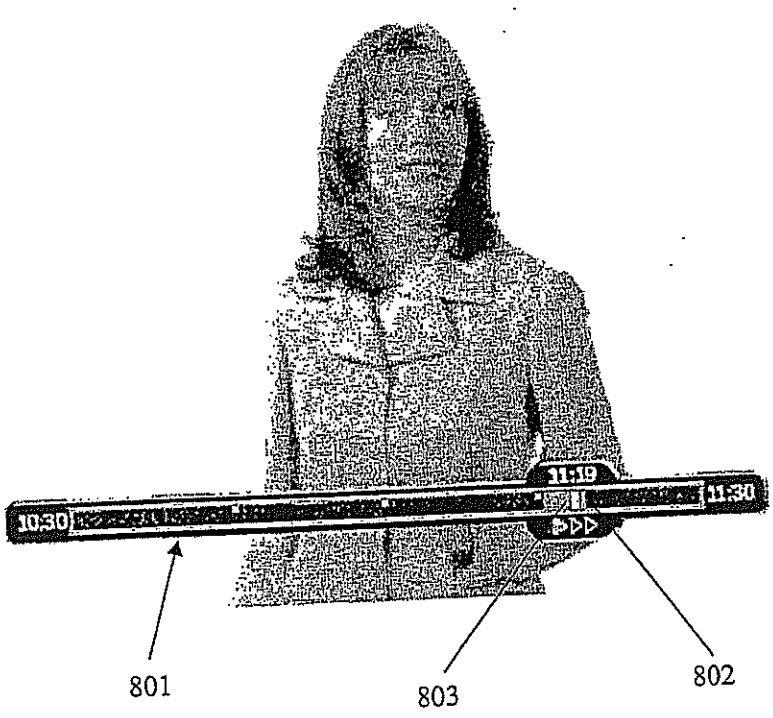


Fig. 8

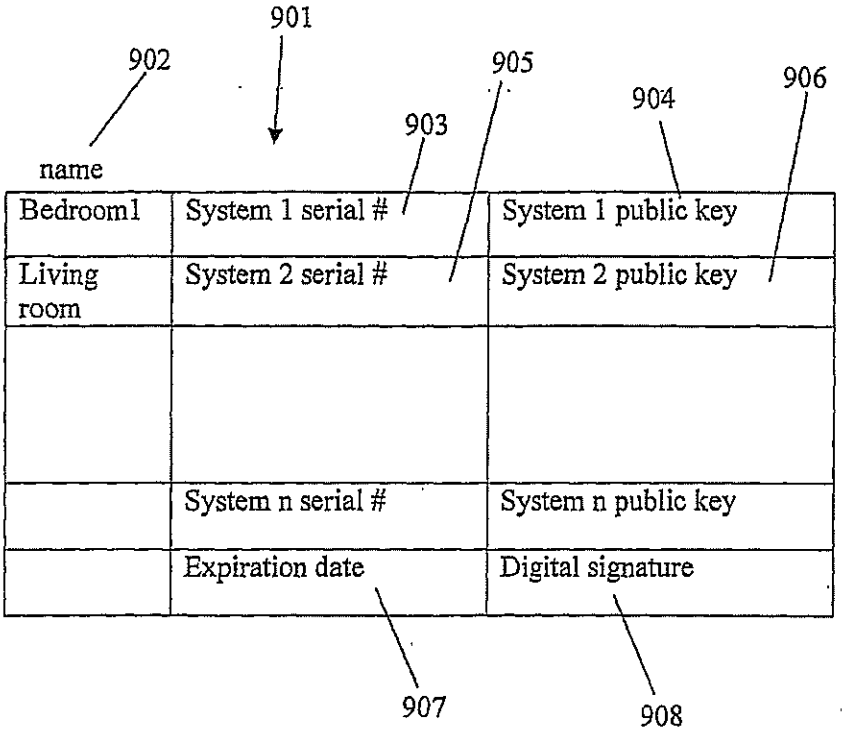

901
902
905
906
904
903
name
Bedroom1
System 1 serial #
System 1 public key
Living room
System 2 serial #
System 2 public key
System n serial #
System n public key
Expiration date
Digital signature
907
908

Fig. 9

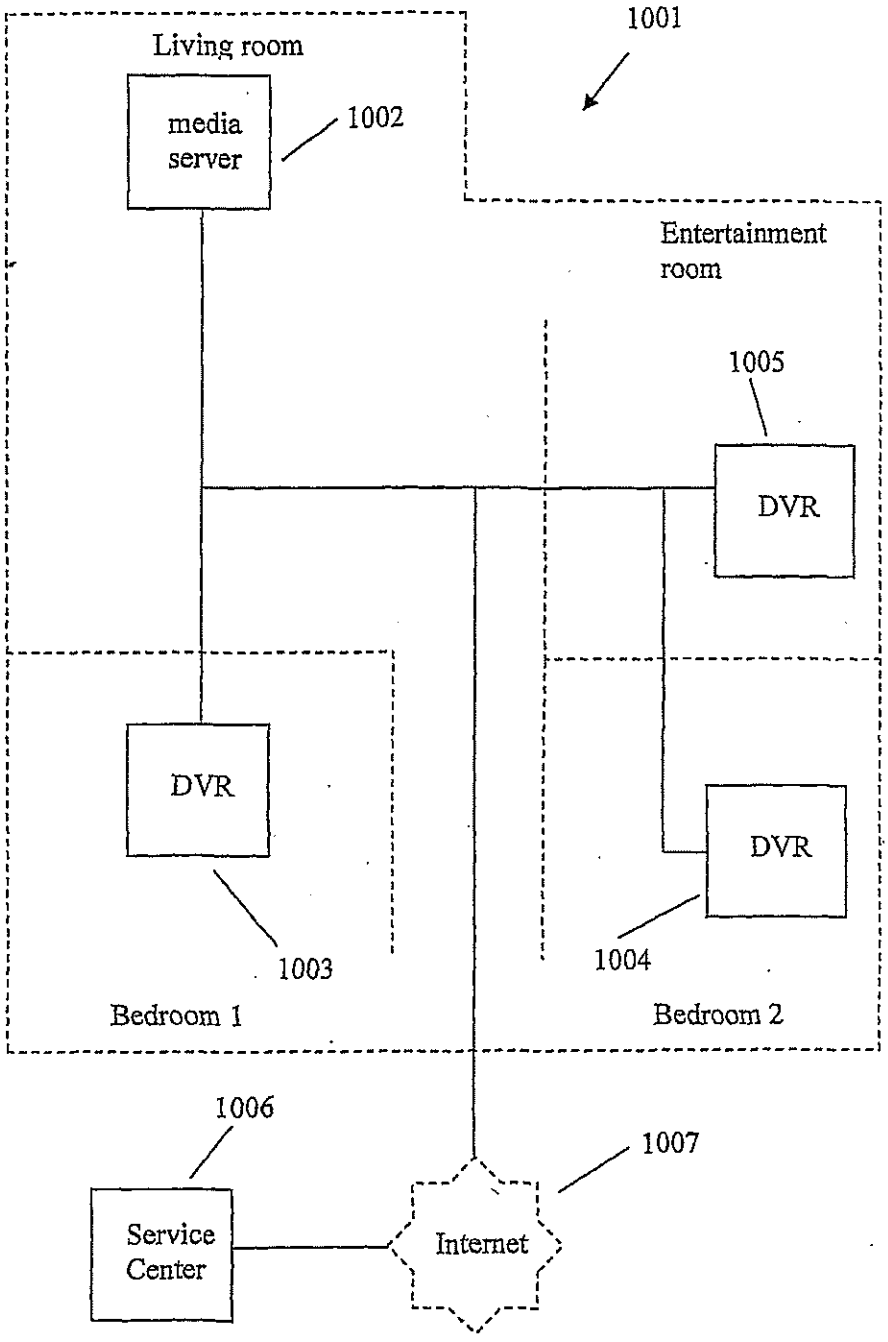

1001
Living room
media server
1002
Entertainment room
1005
DVR
DVR
DVR
1003
1004
Bedroom 1
Bedroom 2
1006
1007
Service Center
Internet

Fig. 10

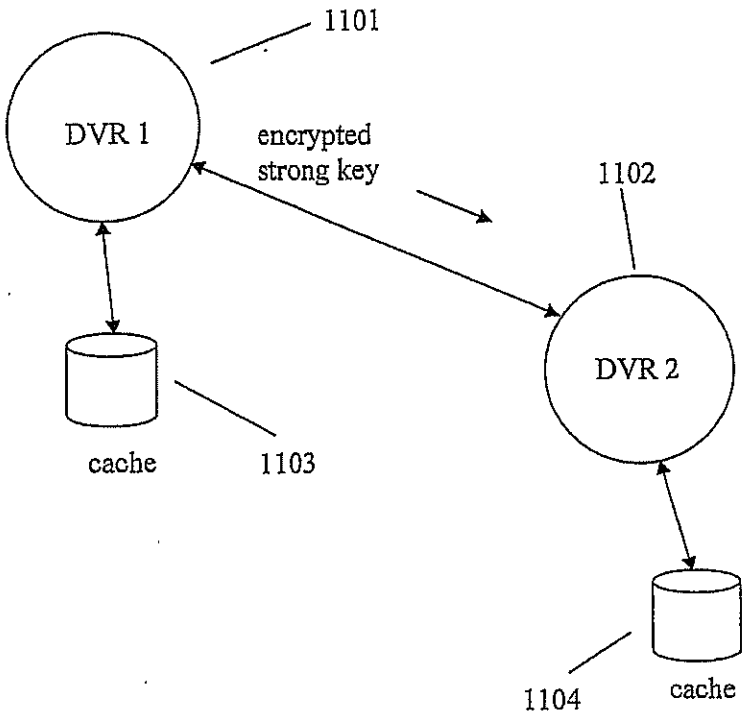

1101
DVR 1
encrypted
strong key
1102
DVR 2
cache
1103
1104
cache

Fig. 11

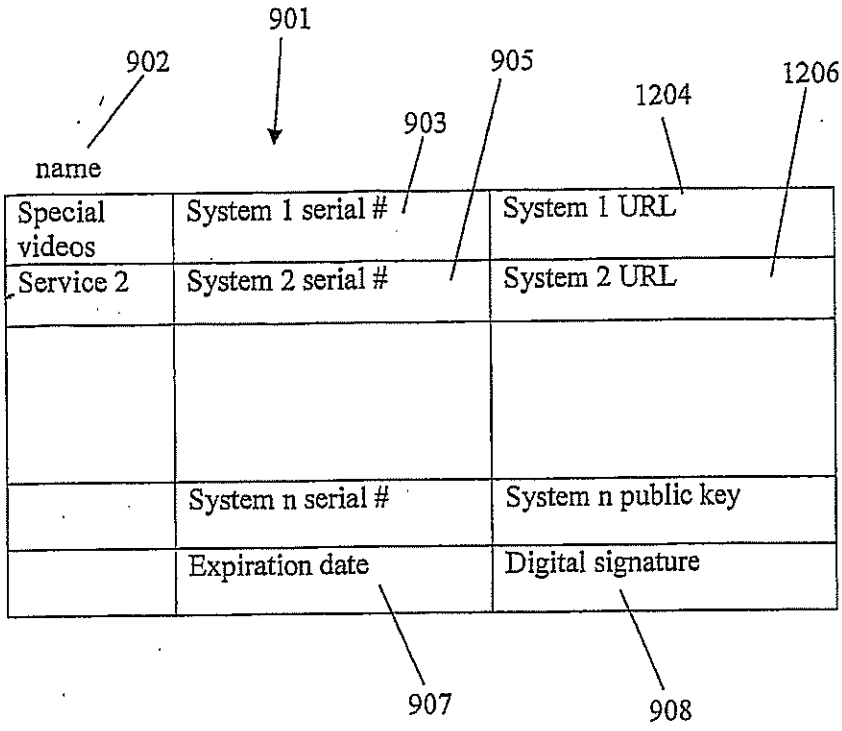

901
902
905
1204
1206
903
name
Special videos
System 1 serial #
System 1 URL
Service 2
System 2 serial #
System 2 URL
System n serial #
System n public key
Expiration date
Digital signature
907
908

Fig. 12

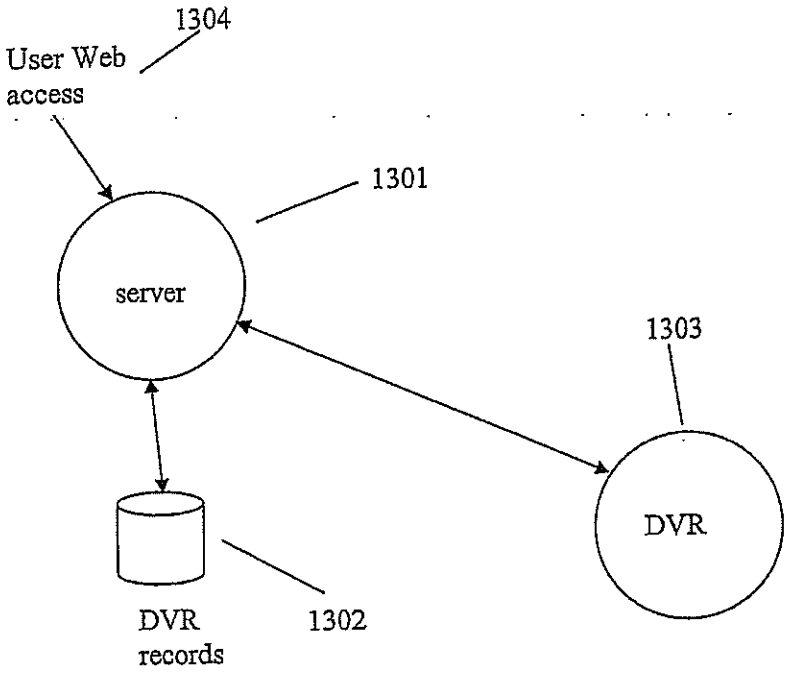


Fig. 13

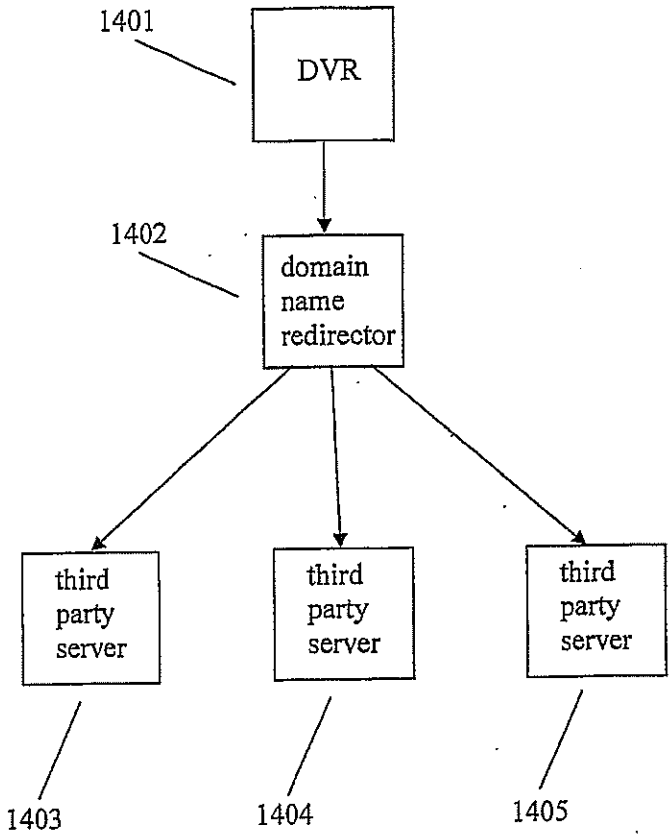

1401
DVR
1402
domain name redirector
third party server
third party server
third party server
1403
1404
1405

Fig. 14

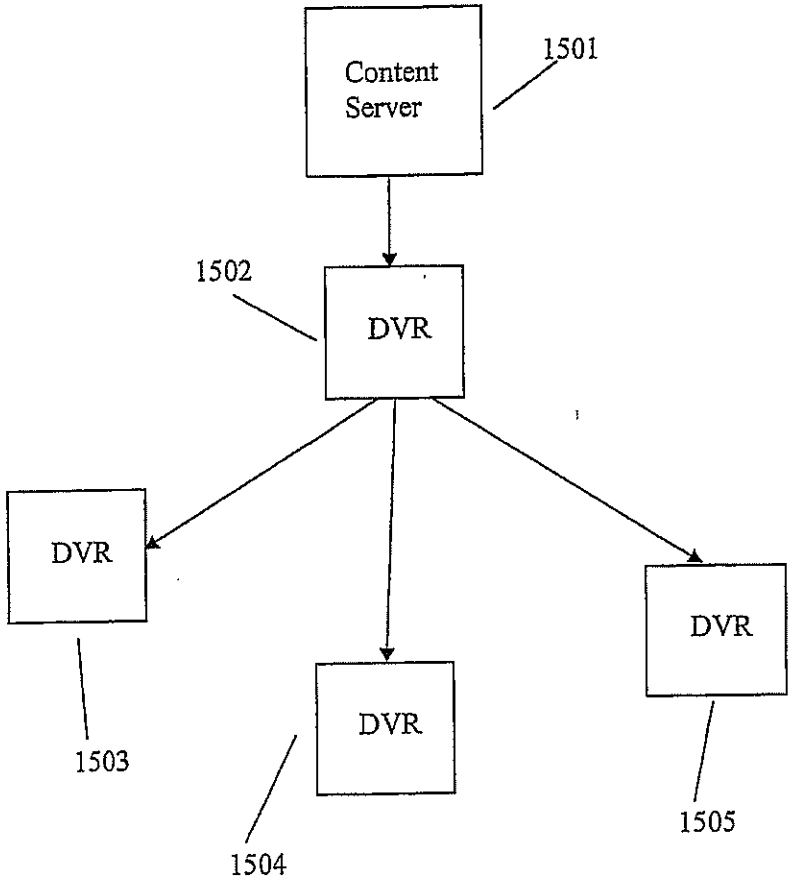


Fig. 15

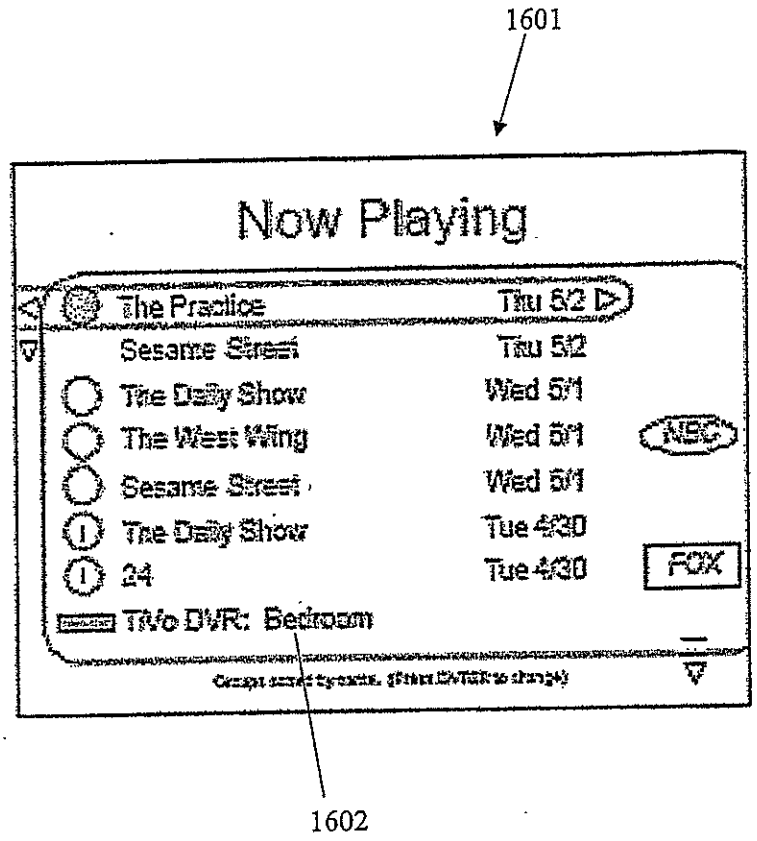

1601
Now Playing
The Practice
Thu 5/2
Sesame Street
Thu 5/2
The Daily Show
Wed 5/1
The West Wing
Wed 5/1
NBC
Sesame Street
Wed 5/1
The Daily Show
Tue 4/30
24
Tue 4/30
FOX
TiVo DVR: Bedroom
1602

Fig. 16

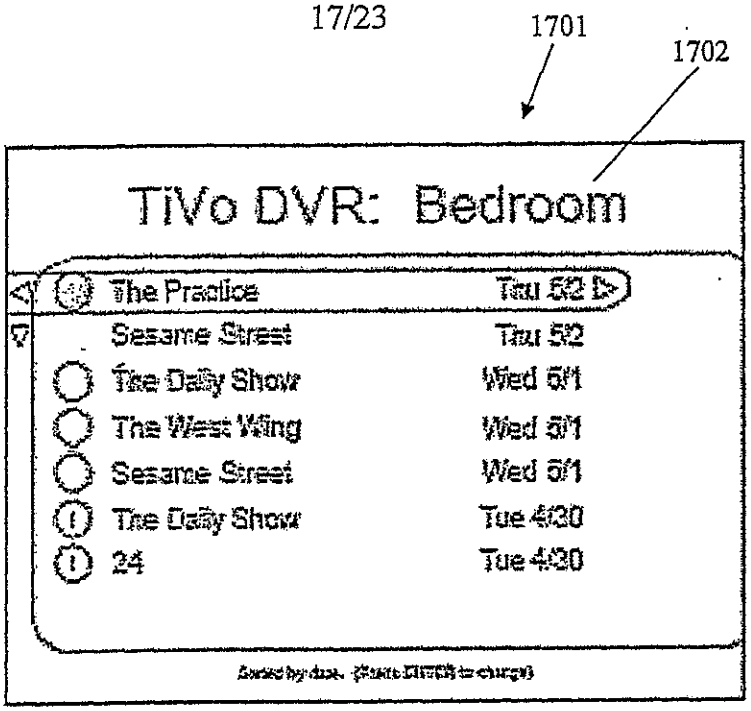

1701
1702
TiVo DVR: Bedroom
The Practice Thu 5/2
Sesame Street Thu 5/2
The Daily Show Wed 5/1
The West Wing Wed 5/1
Sesame Street Wed 5/1
The Daily Show Tue 4/30
24 Tue 4/30

Fig. 17

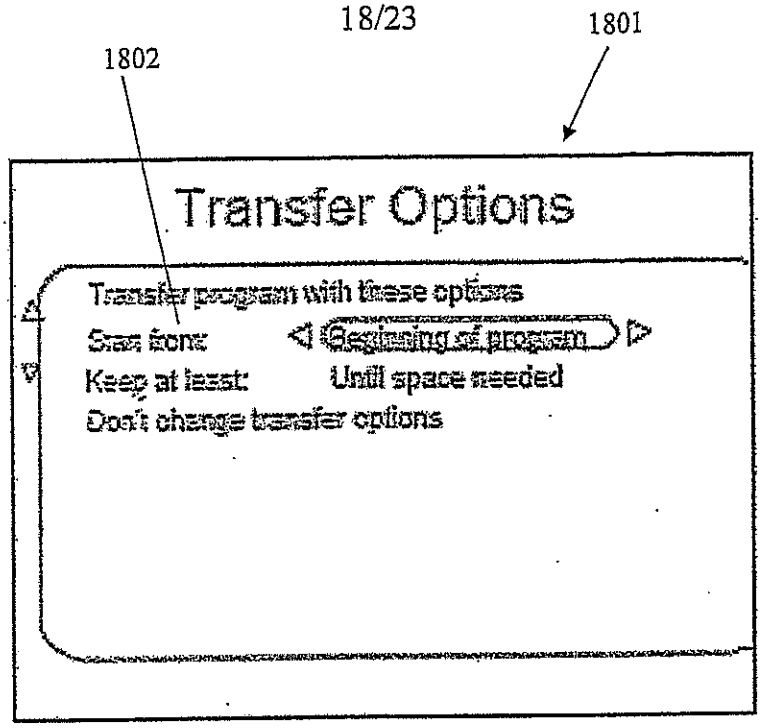

1802
1801
Transfer Options
Transfer program with these options
Start from:
Beginning of program
Keep at least:
Until space needed
Don't change transfer options

Fig. 18

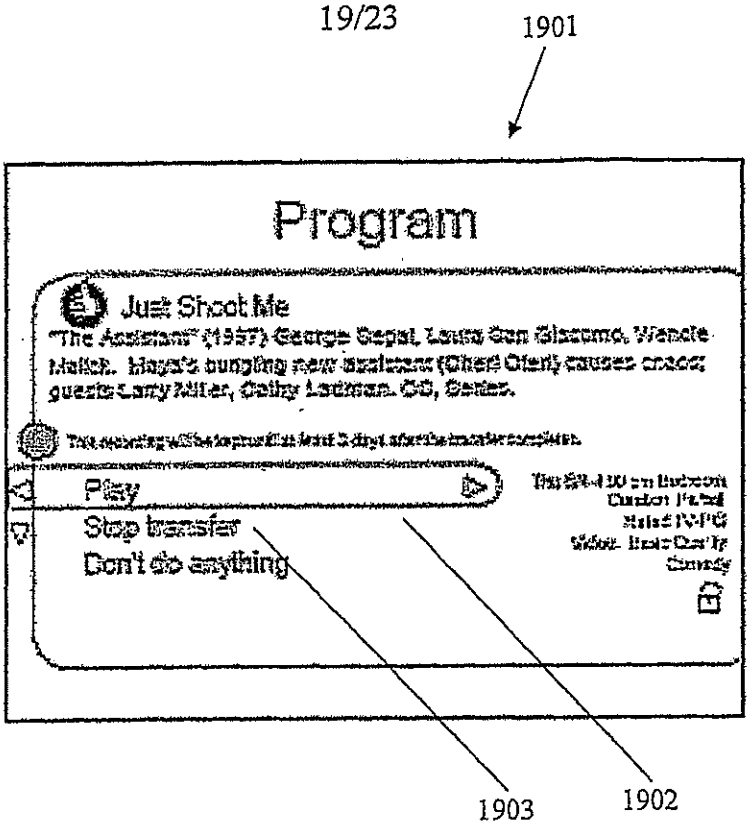

1901
Program
Just Shoot Me
Play
Stop transfer
Don't do anything
1903
1902

Fig. 19

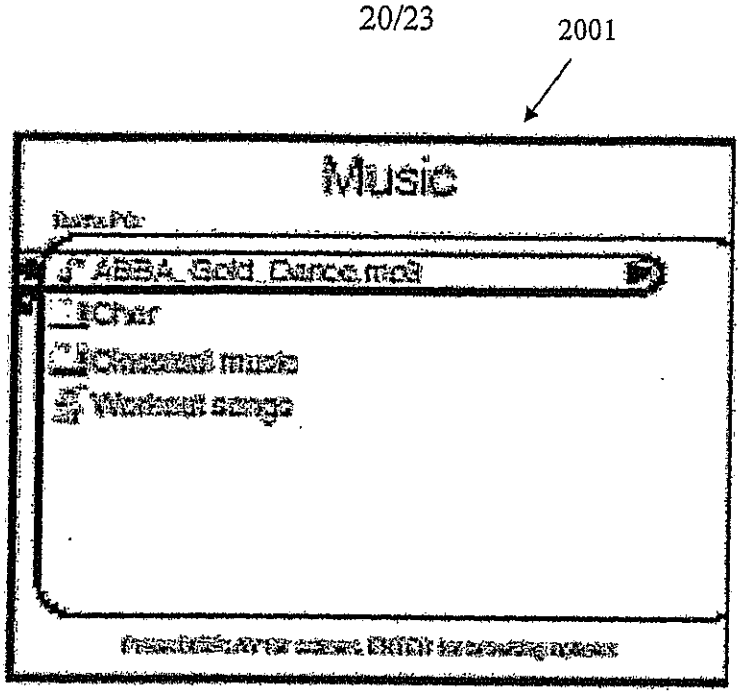


Fig. 20

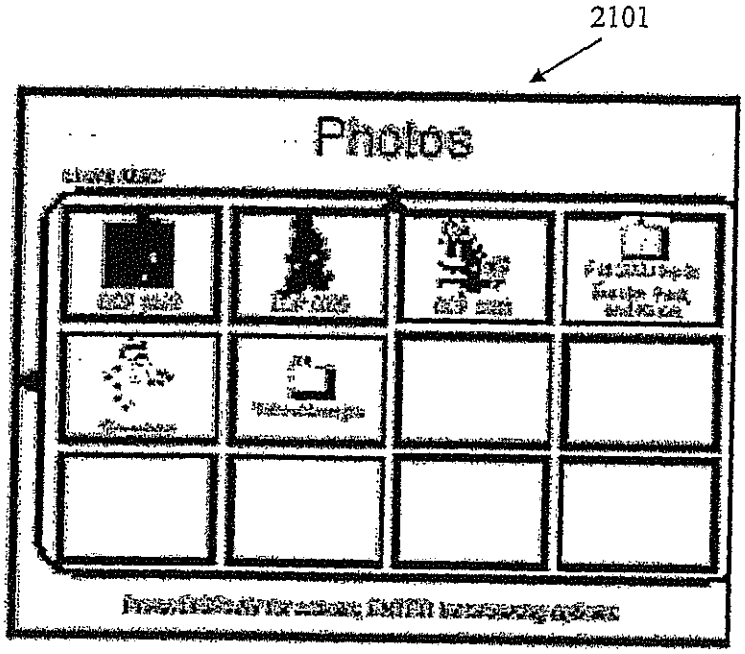


Fig. 21

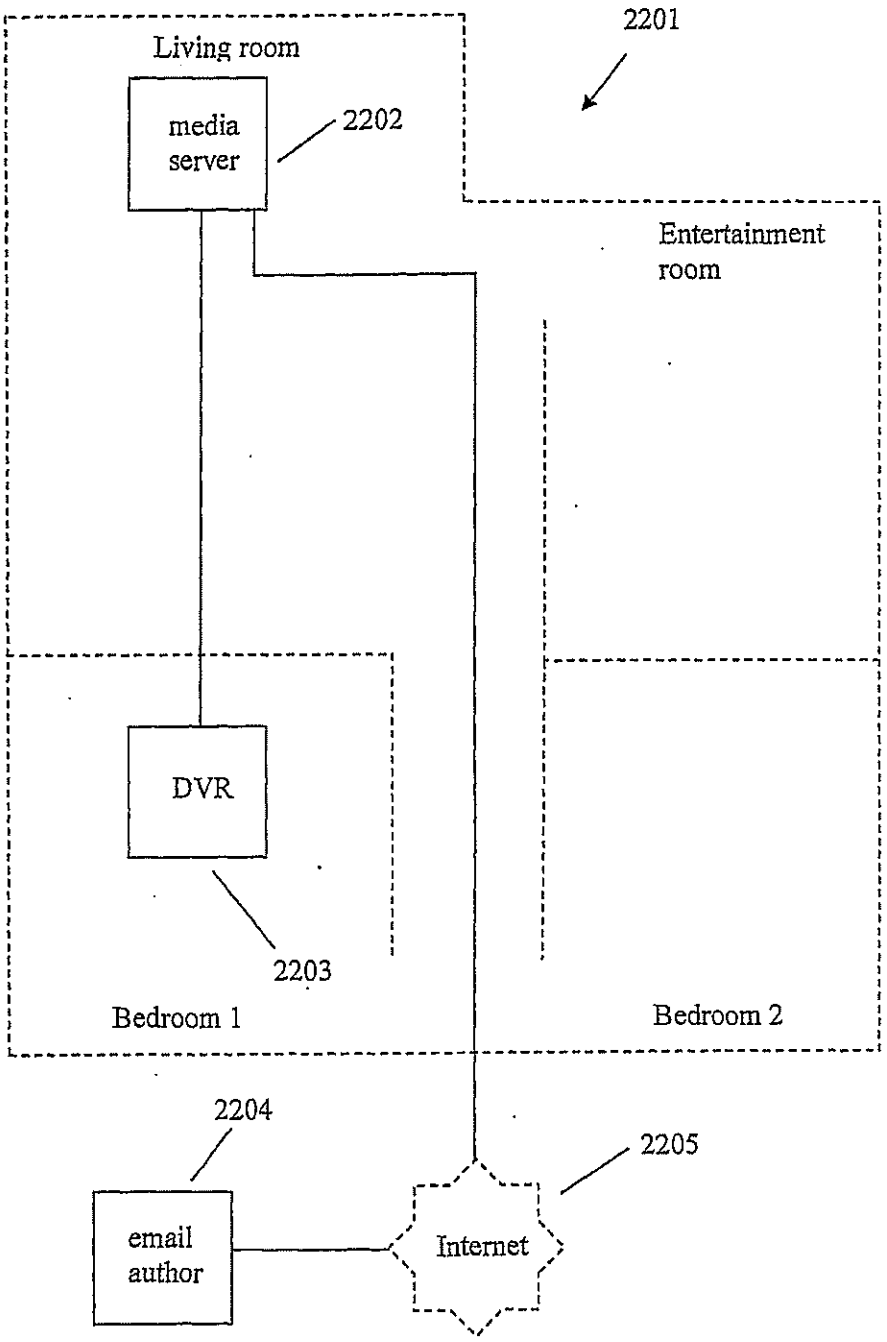

2201
Living room
media server
2202
Entertainment room
DVR
2203
Bedroom 1
Bedroom 2
2204
2205
email author
Internet

Fig. 22

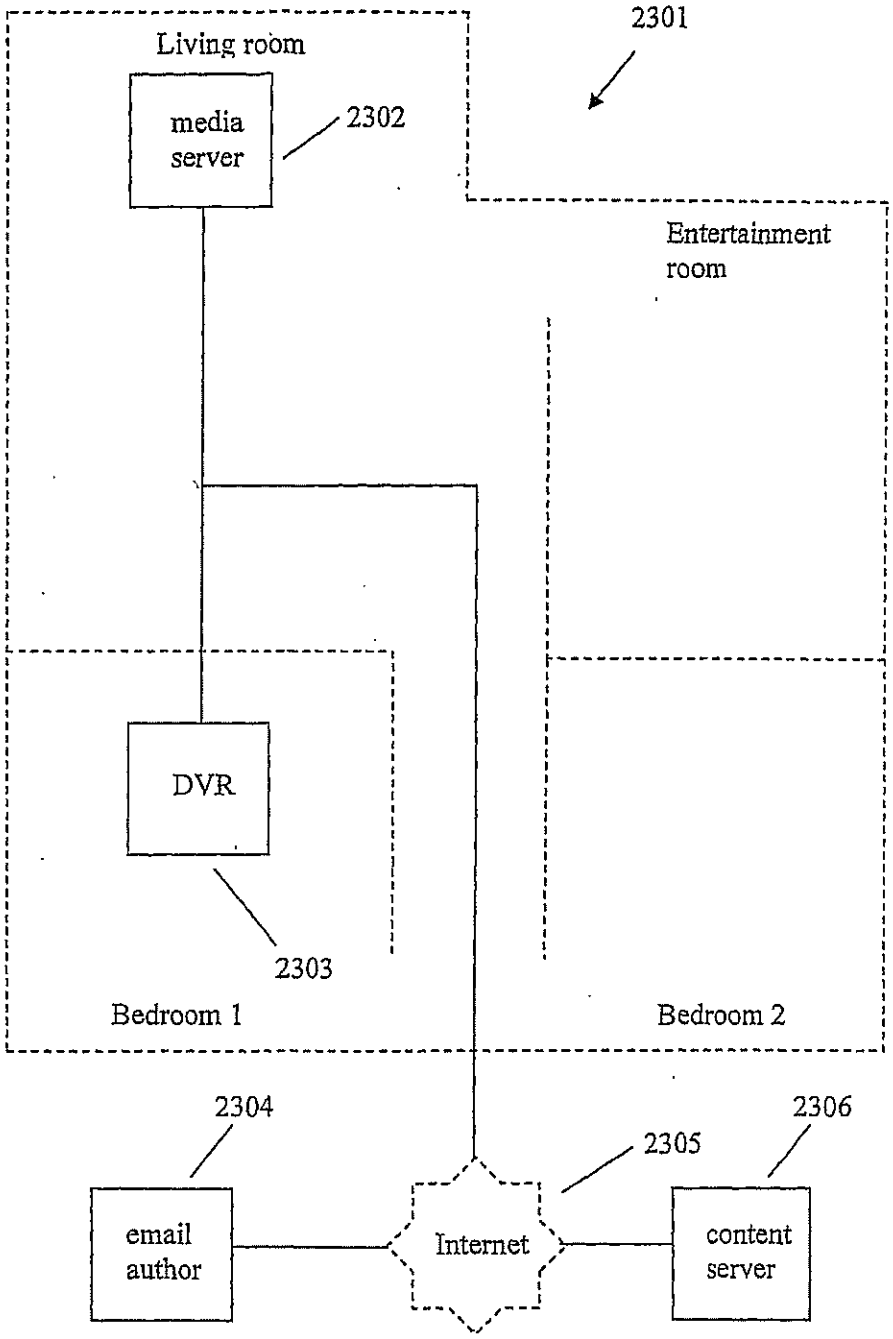

2301
Living room
media server
2302
Entertainment room
DVR
2303
Bedroom 1
Bedroom 2
2304
2305
2306
email author
Internet
content server

Fig. 23