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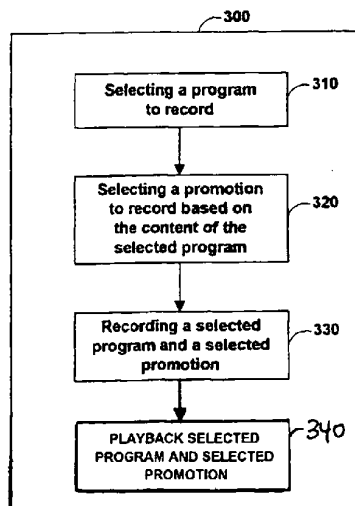
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(54) Title: SYSTEMS AND METHODS FOR PROVIDING PROMOTIONS WITH RECORDED PROGRAMS



(57) Abstract: The invention provides systems and methods for providing promotions with recorded programs. These systems and methods provide for selecting a program to record, selecting a promotion, recording the selected program; and recording the promotion with the program or inserting the promotion during playback of the recorded program. The invention also provides a receiver for receiving signals and/or data (e.g., programs, promotions, program guides, etc.) on a single broadcast channel or on a plurality of broadcast channels, one or more memory storage units for storing signals and/or data, and a processor for selecting a program, selecting a promotion, causing selected programs to be recorded, and controlling the insertion of promotions into a program during recording of the program or during playback of the program.

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SYSTEMS AND METHODS FOR PROVIDING  
PROMOTIONS WITH RECORDED PROGRAMS

Cross Reference to Related Application

This application claims the benefit of United  
5 States Provisional Patent Application No. 60/179,548,  
filed February 1, 2000, which is hereby incorporated  
herein in its entirety.

Background of the Invention

This invention relates to recording of  
10 television programs. More particularly, this invention  
relates to promotional techniques used in conjunction  
with recording of television programs.

Since the advent of video cassette recording,  
individuals have had the opportunity to record  
15 television programs for their personal use.  
Traditionally, these recordings were on magnetic tape.  
More recently, personal video recording has developed  
to allow recording to be accomplished through the use  
of digital storage media.

20 In the past, visual advertisements have been  
highly effective in marketing goods and services.  
Thus, both advertisers and consumers alike may see  
advantages to incorporating promotional materials  
within recorded programs.

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It is, therefore, an object of the invention to provide systems and methods for providing promotions with recorded programs.

#### Summary of the Invention

5           In accordance with this and other objects of the present invention, systems and methods for providing promotions with recorded programs are provided. These systems and methods may record promotional materials ("promotions") at the beginning,  
10           at the end, at the beginning and the end, or at any other point or points of a recording. For example, when a record feature of a program guide is selected to record a program, a promotion record feature may record a promotion (e.g., a movie preview) at the beginning,  
15           at the end, at the beginning and the end, or at any other point or points of the program that is to be recorded. The promotion may then be displayed to the user when the user plays the recorded program.

          These systems and methods may also record  
20           programs and control the integration of selected promotions and recorded programs during playback of the recorded programs.

          In one embodiment of the invention, a system may include: a transceiver that transmits and/or  
25           receives signals and/or data; a processor that selects a program, that selects a promotion, and that causes both the selected program and the selected promotion to be recorded; and a storage device or a plurality of storage devices for storing signals and/or data.

30           In another embodiment of the invention, a system may include a processor that selects a program, that selects a promotion, that causes the selected program to be recorded, and that controls the

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integration of the recorded program and the selected promotion during playback of the recorded program.

Brief Description of the Drawings

5           The above and other objects and advantages of the invention will be apparent upon consideration of the following detailed description taken in conjunction with the accompanying drawings in which like reference characters refer to like parts throughout and in which:

10           FIG. 1 is a block diagram of a system that may be used to implement various embodiments of the present invention;

15           FIG. 2 is a block diagram of user equipment that may be used in accordance with various embodiments of the present invention;

            FIG. 3 is a flow chart of a process in accordance with various embodiments of the present invention;

20           FIG. 4 is an illustration of an interactive program guide grid display that may be used to implement various embodiments of the present invention;

            FIG. 5 is an illustration of an interactive program guide search-sort display that may be used to implement various embodiments of the present invention;

25           FIG. 6 is a flow chart of a process in which a promotion may be recorded at the beginning of a program and that may be used to implement various embodiments of the present invention;

30           FIG. 7 is a flow chart of a process in which a promotion may be recorded at any point during a program and that may be used to implement various embodiments of the present invention;

            FIG. 8 is a flow chart of a process in which a promotion may be recorded at the end of a program and

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that may be used to implement various embodiments of the present invention;

FIG. 9 is a flow chart of a process in which a promotion may be recorded at the beginning and at the end of a program and that may be used to implement various embodiments of the present invention;

FIG. 10 is a flow chart of a process in which a promotion may be recorded at the beginning, at any point during, and at the end of a program and that may be used to implement various embodiments of the present invention; and

FIG. 11 is a flow chart of a process in which promotions may be integrated with the playback of a recorded program that may be used to implement various embodiments of the present.

#### Detailed Description of the Preferred Embodiments

The present invention provides methods and systems for providing promotions with recorded programs.

In one embodiment of the invention, a system may include: a one or more receivers that receives signals and/or data; a processor that selects a program, that selects a promotion, and that causes both the selected program and selected promotion to be recorded; a storage unit or a plurality of storage units for storing signals and/or data; and a display for presenting the recorded programs and promotions to a viewer. The signals and data may be stored locally after being received until needed by the processor, may be available on-demand from a distribution facility, or may be periodically available on a video stream of a broadcast channel.

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The transceiver may transmit and/or receive signals and/or data (e.g., programs, promotions, program guides, applications, URL addresses, etc). These signals and/or data may be transmitted and/or  
5 received by the user's equipment through any communications network (e.g., a cable system, a satellite system, a modem, wireless paging frequencies, the Internet, etc.). For example, a program may be received on a program channel and a promotion may be  
10 received through this program channel's vertical blanking interval (VBI). These signals and/or data may be transmitted and/or received by the user's equipment on one or a plurality of broadcast channels. For example, a program may be received on one channel and a  
15 promotion may be received on another channel.

The processor may select a program to record based on a user's input. A user's input may include the selection of a specific program. Alternatively, a user's input may be a user designation. The input of a  
20 user designation may cause a processor to perform an automatic search and a record function. A user designation may consist of a viewing time, a program channel, and/or specific program content (e.g., recommended audience ratings, date and/or time of  
25 telecast, and/or a program theme). The input of a designation may indicate to the processor to search for all programs that have a user specified theme. For example, a user may select "Westerns" as a desired program theme. The processor may then search for and  
30 select all programs that have a theme related to westerns (e.g., "Blazing Saddles," "City Slickers," "The Quick and The Dead," etc.) The processor may then cause these selected programs to be recorded. A designation may be entered by the user through an



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interactive program guide or an online program guide. Examples of such guides are provided by TV Guide and Gemstar Guide Plus. The program guide may include the ability to select from a menu of designation choices, 5 the ability to accept direct input through text, or the ability to perform keyword searches. A user may submit a designation through a wire or wireless remote operating unit (e.g., a keyboard, a touch screen display, or any other processor input device).

- 10           The processor may select a promotion to record based on specific content of the selected program. For example, when a program with specific content is being recorded, the processor may select a promotion corresponding to the content of a program 15 that is being recorded. The processor may determine a selected program's content from program guide data, from the program itself, from data accompanying the program, or from any other suitable source. The program guide data may be received prior to or 20 concurrently with the program. Similarly, the processor may determine a promotion's content from promotion data accompanying the promotion, promotion data received separately from the promotion, from the promotion itself, or from any other suitable source.
- 25 The content of a program or a promotion may be indicated by tags, thumbnails, closed-caption or teletext data, speech-to-text data recognition, audio classification (e.g., speech and music), clip markings, recommended audience ratings, program informational 30 display screens, or any other information.
- Alternatively, the promotion may be unrelated to the program, and may be selected on the basis of time, user demographics, or any other criterion, or may be selected on a random basis.

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The processor may then cause the selected program and the selected promotion to be recorded on storage media. The recording of a selected promotion may be at the beginning, at the end, at the beginning and at the end, or at any other desired point or points within a recorded program. The insertion of a selected promotion during the recording of a program may cause the processor to buffer all of or portions of a program in a storage unit. After the promotion is inserted, the processor may then cause the remaining portion of the program to be recorded from the storage unit. A program may indicate where a promotion is or promotions are to be inserted using one or more tagged promotion points within a program's signal or data. These promotion points may be located at the beginning, at the end, at the beginning and at the end, or at any other desired point or points within a program. For example, when recording multiple programs, one or more promotions may be recorded between the programs.

The storage unit or plurality of storage units may be used to store signals and data (e.g., programs, promotions, program guides and guide data, video recordings, and any other desired content and/or data).

Each storage unit may be located locally at or near a user's television viewing equipment (e.g., in the user's home or at a cable node near the user's home), or may be located remotely from the user's television viewing equipment such that the storing of programs, promotions, and data on the storage unit may be controlled by the processor over a communications network. If a storage unit is located locally, during playback, the processor may cause a program, promotion, or data to be retrieved from the storage unit and

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displayed to the user. If a storage unit is located remotely, during playback, the storage unit storage unit may transmit the program, promotion, and data over the communications network so that the program, promotion, or data can be displayed to the user.

In order to facilitate playback of recorded programs, an interactive user interface may be provided to enable a user to select recorded programs for playback. This interface may cause a flag to be recorded at the beginning of each portion of a storage medium. For example, with a video cassette, each time a recording is made, a flag may be recorded at the beginning of the recording. When a promotion is recorded at the beginning of a program, a flag may be recorded at the beginning of the promotion. The flag may then be used to identify the beginning of the program during subsequent playback. For example, when a list of previously recorded programs is presented to a user in an interactive user interface, upon the user selecting a program from the list, the invention may rewind or advance a storage medium, such as a video cassette, to the corresponding flag and playback the program until the next flag is detected.

In another embodiment of the invention, a system may include a processor that selects a program, that selects a promotion, that causes the program to be recorded, and that controls the integration of the recorded program and the selected promotion during playback of the selected program on a display.

The processor may select and record a program and select a promotion, as set forth in detail above. The processor may also control playback of a recorded program by inserting promotions at a promotion point during the playback of the selected program. The

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processor may determine promotion points using tags within a program's signal or data or using any other suitable method. The insertion of a selected promotion during playback of the recorded program may cause the  
5 processor to send, for example, a pause or stop command or signal to halt the playback of the recorded program. After, the promotion is inserted and played, the processor may then send a command or signal to continue the playback of the remaining portion or portions of  
10 the recorded program.

FIG. 1 is a block diagram of system 100 that may be used to implement various embodiments of the present invention. System 100 may comprise program broadcast equipment 110, promotion broadcast  
15 equipment 120, guide data broadcast equipment 130, communications network 140, user equipment 150, and communication links 160. Broadcast equipment 110, 120, and 130 may be any suitable equipment for providing program signals, promotion signals, program guide  
20 signals, and/or any other desired signals or data, such as video and data servers, live broadcast equipment, video tape players, etc., and may be located at a cable headend or at any other convenient location. In addition, broadcast equipment 110, 120, and 130 may be  
25 combined into a single broadcast unit.

Communication network 140 may be any suitable network for transmitting signals and/or data to and/or from broadcast equipment 110, 120, and 130. For  
example, network 140 may be the Internet, a satellite  
30 communications system, a cable system, a Local Area Network, a Wide Area Network, etc., or any combination of the same. Communication network 140 may use digital or analog technology or any combination thereof.

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User equipment 150 may be any suitable equipment for receiving, processing and displaying signals and/or data received from and/or transmitted to broadcast equipment 110, 20, and 130. For example,  
5 user equipment 150 may be a one or two-way set-top box, a television with processing and recording capability, a personal video recorder, a video cassette recorder with suitable processing capabilities, a personal computer, etc.

10 Communication links 160 may be any suitable link for communicating data and/or signals, such as a dial-up connection, a fiber optic cable, a coax cable, a DSL connection, etc. or any combination of the same.

Although not shown in FIG. 1, system 100 may  
15 also include one or more remote storage units that may be used to store programs, promotions, and programs. These remote storage units may receive programs, promotions, and data from program broadcast equipment 110, promotion broadcast equipment 120, and guide data  
20 broadcast equipment 130, may be controlled by any of broadcast equipment 110, 120, and 130 and user equipment 150, and may provide the programs, promotions, and data to user equipment 150 via communications network 140.

25 FIG. 2 is a block diagram of user equipment 150 shown in FIG. 1. User equipment 150 may be used in accordance with various embodiments of the present invention. User equipment 150 may include: a receiver 220; a processor 270; storage units 230, 240,  
30 250, and 260; a remote control unit 280; a remote control interface 290, video circuitry 215, and a display 225. Receiver 220 may be any suitable equipment for receiving program signals, promotion signals, program guide data, and/or any other desired

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signals or data. Although not shown, receiver 220 may be supplemented with a transmitter for transmitting program signal, promotion signal, program guide data, and/or any other desired signals or data. Processor 5 270 may be any suitable equipment for accepting a user input signal, selecting a program, selecting a promotion, and causing a selected program and a selected promotion to be recorded. Storage units 230, 240, 250, and 260 may be used for storing programs, 10 promotions, program guides, and recordings, respectively. Any of storage units 230, 240, 250, and 260 may be any devices that are capable of electronically storing signals and/or data (e.g., a separate video cassette recorder, a disk drive, a 15 memory card, etc.). Storage units 230, 240, 250, and 260, if desired, may also be combined into a single storage unit. Remote control unit 280 may be a keyboard, a touch screen display, a front panel, or any other wired or wireless device that a user may use to 20 input data. Remote control interface 290 receives a signal from remote control unit 280 and then sends that signal to processor 270. Remote control interface 290 may be, for example, a photo detector. Video circuitry 215 may be any suitable circuitry for converting data 25 from processor 270 into video signals for display on display 225. Finally, display 225 may be any suitable device for presenting images to a viewer, such as a television, a monitor, a computer monitor, a personal data assistant, etc.

30 FIG. 3 is a flow chart of a process 300 in accordance with various embodiments of the present invention. As illustrated, at step 310, process 300 may begin by selecting a program to record. As mentioned above, selecting may be based on a particular

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selection of a program by a user or on a selection of a theme, or other designation, by the user. Next at step 320, process 300 may select a promotion to record. The selection of a promotion may be based upon the  
5 content of the program to be recorded. Alternatively, the promotion selection may be made independently of the content of the program to be recorded. Finally, at step 330, process 300 may record a selected program and a selected promotion. The selected program and the  
10 selected promotion may be recorded to any suitable storage unit such as a separate video cassette recorder, a disk drive, or a memory card, etc. As stated above, the storage unit may be located locally at or near a user's television viewing equipment, or  
15 may be located remotely from the user's television viewing equipment. Finally, at step 340, the program and promotion may be played back on a display at a user's request.

FIG. 4 is an illustration of an interactive  
20 program guide grid display screen 410 that may be used to select a program to record in various embodiments of the present invention. Screen 410 may include a time bar 420 that may be divided into a plurality of horizontally arranged time cells 430 and a date  
25 cell 440. Each time cell 430 may correspond to a one half hour time period (or any other suitable period) of television programming. Date cell 440 identifies the telecast date for the television programs identified in display screen 410. Screen 410 may also include  
30 channel bar 450 that is divided into a plurality of vertically arranged channel cells 460. Channel cells 460 may identify the channels on which the displayed programs are to be (or are being) telecast. Screen 410 may further include program grid 470.

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Program grid 470 may be divided into a plurality of program cells 480. Each program cell 480 may contain a particular television program name and may be selectable. The width of each cell may correspond to  
5 the length of the corresponding program. A program in cell 485 may be selected to record by highlighting the cell using arrow keys on remote control unit 280 and pressing a record key on the remote control.

Turning now to FIG. 5, a program designation  
10 screen 500 that may be used to designate programs to record by theme and/or key word is described. Program designation screen 500 may include theme selection menu 510 and key word search menu 520. Menus 510 and 520 may allow a user to define program search  
15 criteria. Theme selection menu 510 may include theme selection cells 515 and 516 that may be individually selectable and that may allow a user to search for programs containing a specific theme. Theme Cell 516 depicts a selected theme cell. Key word search  
20 menu 520 may include a key word search cell 525 that allows a user to enter alphanumeric text to search for specific content of a program. Menus 510 and 520 may be used in conjunction or separately. Search cell 528 may be used to initiate a user's program search.

25 Screen 500 may also include a program list 530 that displays the results of a user's program search. Program list 530 may include program cells 535 and 536 that display program information. One or more program cells may be automatically selected based upon  
30 the theme or search term selected, as shown by selected program cells 536. Record button 560 may be used to initiate recording. Program list 530 may also include program rating cells 537 that categorize program cells according to their rating (e.g., G, PG, PG-13, R).



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Program list 530 may further include a program list header 540 that identifies the number of programs that meet the program search selection criteria.

In addition, program designation screen 500  
5 may also include a sort menu 550 that enables a user to sort programs that have met the program search criteria and that are displayed in program list 530. Sort menu 550 may include sort cells 555 and 556 that allow the user to select a sorting technique. For example,  
10 programs that meet a user's search criteria may be sorted by viewing time, by rating, by alphabetically arranging, etc. One or more sort cells may be selected, as shown by selected sort cells 556. Sort activation cell 558 may be used to initiate the user's  
15 selected sorting techniques.

Screens 410 and 500 are merely illustrative of screens and methods that may be used to designate programs to be recorded. Any suitable screens and methods may be used in accordance with the present  
20 invention.

FIG. 6 is a flow chart of a process 600 in which a promotion may be recorded at the beginning of a program and that may be used to implement various embodiments of the present invention. Process 600  
25 shows promotion recording at step 610 prior to beginning recording of a selected program at step 620.

FIG. 7 is a flow chart of a process 700 in which a promotion may be recorded at a point during a program and that may be used to implement various  
30 embodiments of the present invention. Process 700 shows the start of program recording at step 710, the recording of a promotion at a point during program recording at step 720, and the finishing of program recording at step 730.

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FIG. 8 is a flow chart of a process 800 in which a promotion may be recorded at the end of a program and that may be used to implement various embodiments of the present invention. Process 800  
5 shows the recording of a program at step 810 and the recording of a promotion at step 820 at the end of program recording.

FIG. 9 is a flow chart of a process 900 in which a promotion may be recorded at the beginning and  
10 at the end of a program and that may be used to implement various embodiments of the present invention. Process 900 shows recording a first promotion at step 910 at the beginning of program recording, the recording of a program at step 920, and the recording  
15 of a second promotion at step 930.

FIG. 10 is a flow chart of a process 1000 in which a promotion may be recorded at the beginning, at a point during, and at the end of a program and that may be used to implement various embodiments of the  
20 present invention. Process 1000 shows recording of a first promotion at step 1010 at the beginning of a program, recording of a first portion of the program at step 1020, recording of a second promotion at step 1030 at a point during the program, recording of a second  
25 portion of the program at step 1040, and recording of a third promotion at step 1050 at the end of the program.

Processes 600, 700, 800, 900, and 1000 may be used in any suitable combination to record multiple promotions before, during, and/or after a program.

30 FIG. 11 illustrates a process 1100 for integrating promotions during the playback of a recorded program that may be used to implement various embodiments of the present invention. As shown, at step 1102, process 1100 may begin by selecting a

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program for recording. Selecting a program for recording may be performed in any suitable manner, such as those described in connection with FIGS. 4 and 5. Next at step 1104, process 1100 may record the program.

5 At any point after beginning recording of a program, even before a program has completed recording, playback of the program may be initiated at step 1106. Preferably, playback is initiated in response to a command from a user, however, playback may be initiated  
10 automatically.

Next, at test 1108, process 1100 may determine whether to play a promotion. Determining whether to play a promotion may be made using any suitable criterion. If a promotion is to be played,  
15 process 1100 may next play the promotion at step 1112. If a promotion is not to be played, however, process may determine whether playback is complete at test 1114. If play back is complete, then process 1100 may loop back to step 1102 to wait for another program to  
20 be selected for recording.

If the playback is determined not to be complete at test 1114, or after playing a promotion at step 1112, process 1100 determines whether to play a portion of the program at test 1116. If a portion of  
25 the program (such as a first half of the program, a second half program, the whole program, or any other portion of the program) is to be played, process 1100 plays the portion at step 1118. Once the portion has been played at step 1118, or if it is determined that  
30 no portion is to be played at test 1116, then process 1100 loops back to test 1108.

Thus, systems and methods for providing promotions with recorded programs are provided. Persons skilled in the art will appreciate that the

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present invention can be practiced by other than the  
described embodiments, which are presented for purposes  
of illustration rather than of limitation, and that the  
present invention is limited only by the claims that  
5 follow.

THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A method for providing promotions with recorded programs comprising:

selecting a television program and at least one promotion to be recorded, wherein the television program is selected by a user and the promotion is selected by a processor;

recording the selected television program;

recording the selected promotion at a predetermined point of the recording;

buffering the portion of the television program after the predetermined point in a buffer; and

recording the portion of the television program after the predetermined point from the buffer.

2. The method of claim 1, wherein the processor selects the promotion based on the content of the program.

3. The method of claim 1 wherein the selecting of the program is based on user input.

4. The method of claim 1 wherein the user input is a selection of a specific program.

5. The method of claim 1 wherein the program and promotion are recorded on a storage unit.

6. The method of claim 1 wherein the predetermined point of the recording is the beginning of the recording.

7. The method of claim 1, wherein the predetermined point of the recording is any desired point during the recording.

8. The method of claim 1 wherein the predetermined point of the recording is the end of the recording.

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9. The method of claim 5 wherein promotions are recorded at the beginning and the end of the program.

10. The method of claim 5 wherein the promotion is recorded at any desired point within the program.

11. The method of claim 1 further comprising receiving the program and the promotion.

12. The method of claim 11 further comprising receiving program guide data.

13. The method of claim 12 wherein the program, the promotion, and the program guide data are received on a single broadcast channel.

14. The method of claim 12 wherein the program, the promotion, and the program guide data are received on a plurality of broadcast channels.

15. The method of claim 12 further comprising storing the program, the promotion, and the program guide data.

16. The method of claim 15 wherein the program, the promotion, and the program guide data are stored on a storage unit.

17. The method of claim 15, wherein the program, the promotion, and the program guide data are stored on a plurality of storage units.

18. A system for providing promotions with recorded programs comprising:

means for selecting a television program and at least one promotion to be recorded, wherein the television program is selected by a user and the promotion is selected by a processor;

means for recording the selected television program;

means for recording the selected promotion at a predetermined point of the recording;

means for buffering the portion of the television program after the predetermined point in a buffer; and

means for recording the portion of the television program after the predetermined point from the buffer.

19. The system of claim 18 wherein the processor selects the promotion based upon the content of the program.

20. The system of claim 18 wherein the user selects a specific program.

21. The system of claim 18 wherein the predetermined point of the recording is the beginning of the recording.

22. The system of claim 18, wherein the predetermined point of the recording is any desired point during the recording.



23. The system of claim 18 wherein the predetermined point of the recording is the end of the recording.

24. The system of claim 18 wherein the program and promotion are recorded on a storage unit.

DATED this 30<sup>th</sup> day of September 2005

**United Video Properties, Inc.**

By Its Patent Attorneys

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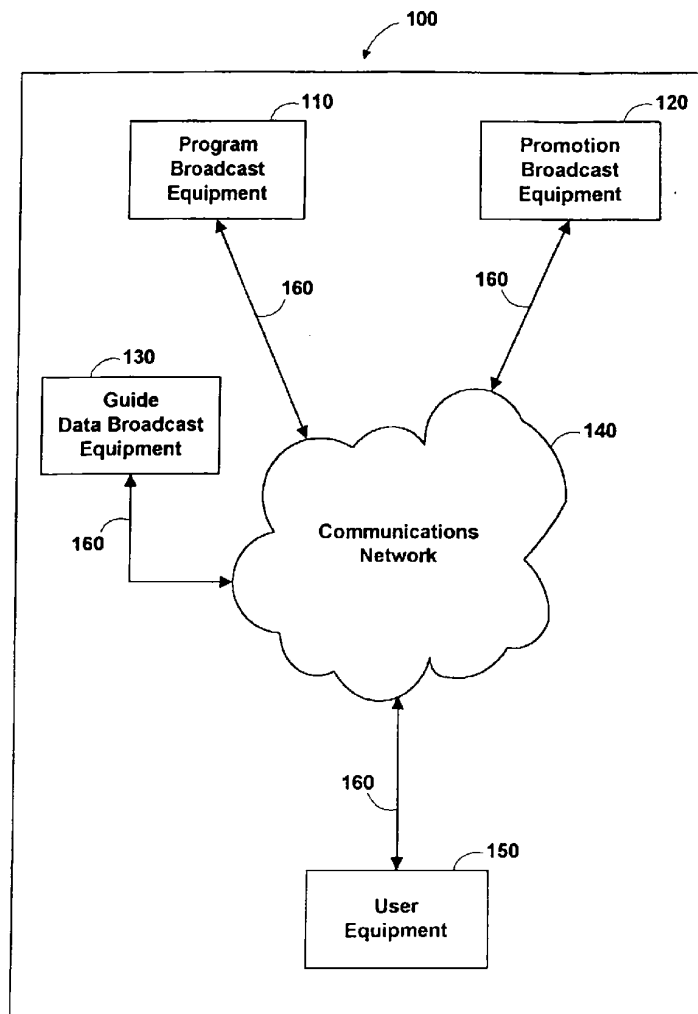


FIG. 1

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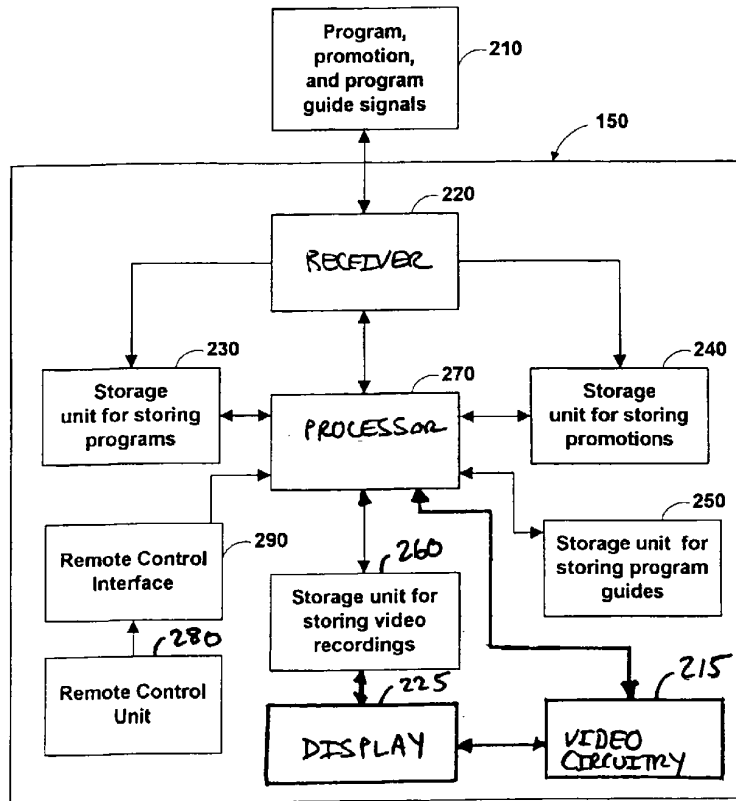


FIG. 2

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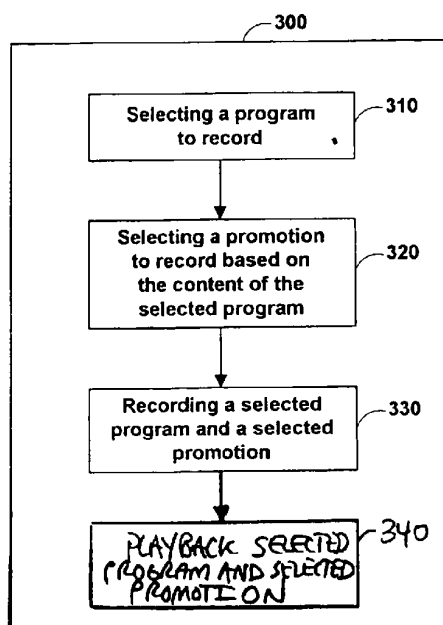


FIG. 3

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FEB 09 440	7:00 PM 430	7:30 PM 430	8:00 PM 430
14 HBO 460	ROBIN HOOD MEN IN TIGHTS 485		POINT OF IMPACT 480
15 MAX 460	FLY BY NIGHT 480		
16 ENCORE 460	FLY BY NIGHT 480		FLY BY NIGHT 480
18 SHOW 460	ANGIE 480		
21 REQ 460	LASSIE 480		BLOWN AWAY 480
22 STARZ 460	MAC 480		
RECORD			

FIG. 4

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SEARCH 528

R

TRUE LIES  
 Wed. Mar. 08 4:30 PM

HURRICANE SMITH  
 Fri. Mar. 10 3:15 AM

SPEED  
 Fri. Mar. 10 7:00 PM

PG

RAIDERS OF THE LOST ARK  
 Fri. Mar. 10 4:00 PM

LAST ACTION HERO  
 Sat. Mar. 11 7:00 PM

DRAMA  
 515

ACTION  
 516

SCI-FI  
515

73 PROGRAMS FOUND

537

535 HBO

536 MAX

535 REQ

537

535 SHO

535 TMC

SORT 558

ALPHA  
 555

RATING  
 556

TIME  
 556

KEY WORD SEARCH

525

RECORD

FIG. 5

-30-

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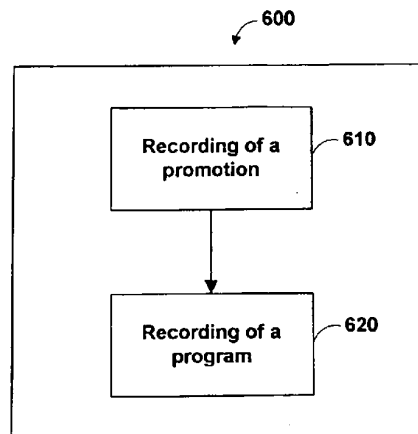


FIG. 6

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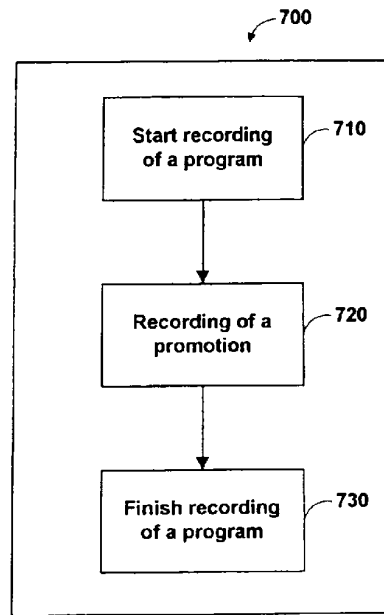


FIG. 7



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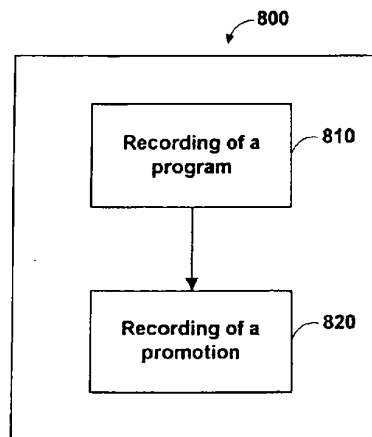


FIG. 8

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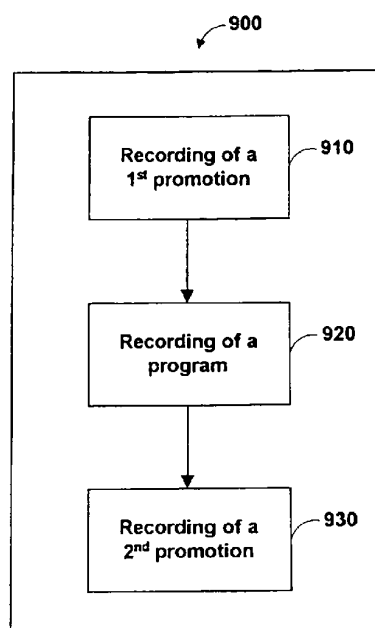


FIG. 9

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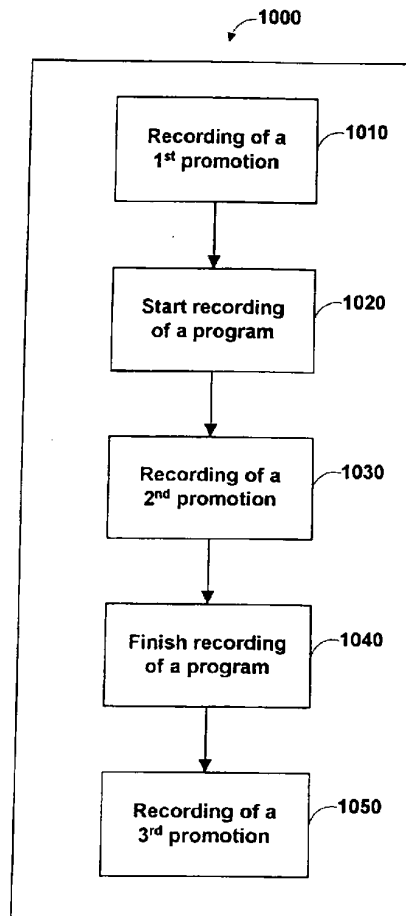


FIG. 10

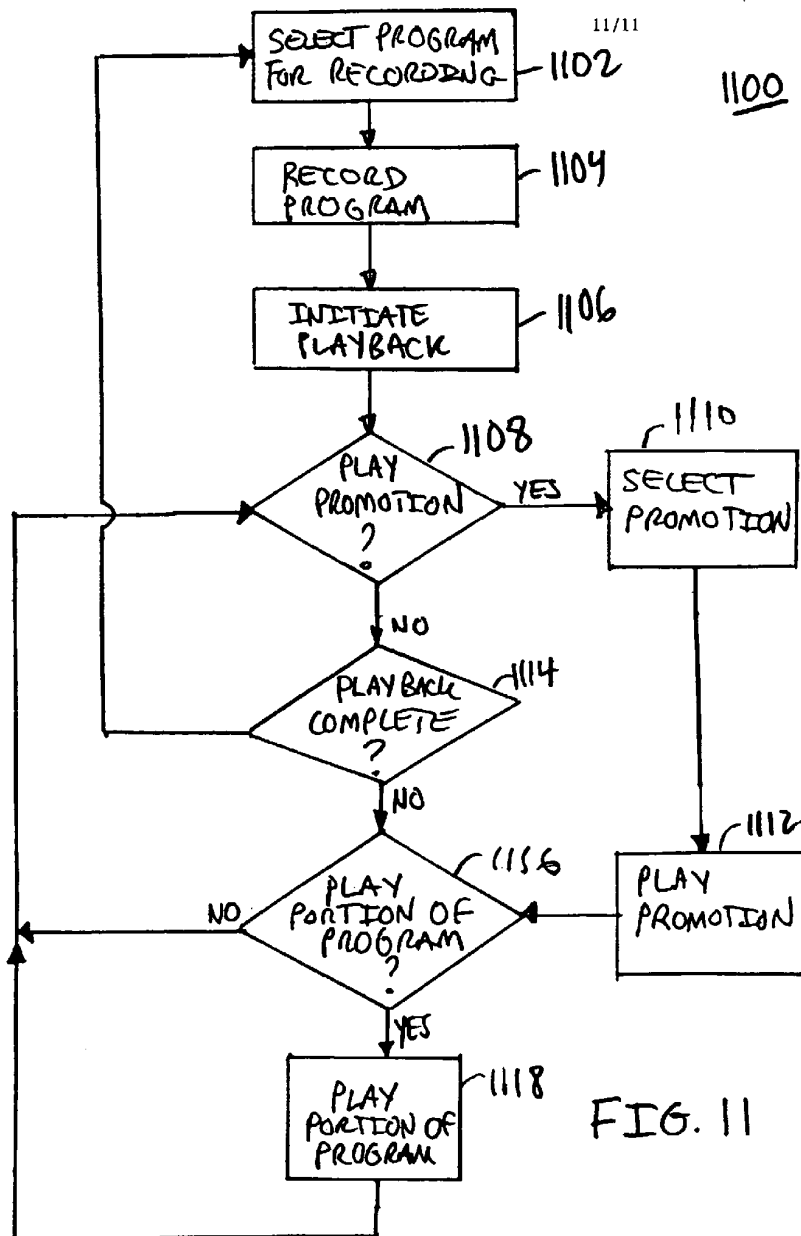


FIG. 11