

CONTAINS CONFIDENTIAL BUSINESS INFORMATION SUBJECT TO PROTECTIVE ORDER

**IN THE UNITED STATES DISTRICT COURT  
FOR THE SOUTHERN DISTRICT OF FLORIDA**

**Case No. 1:10cv023580-Civ-UU**

MOTOROLA MOBILITY, INC.,

Plaintiff,

v.

APPLE INC.,

Defendant.

**JURY TRIAL DEMANDED**

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APPLE INC.,

Counterclaim Plaintiff,

v.

MOTOROLA, INC. and  
MOTOROLA MOBILITY, INC.,

Counterclaim Defendants.

**APPLE'S SUPPLEMENTAL OBJECTIONS AND RESPONSES TO MOTOROLA  
MOBILITY AND MOTOROLA'S FIRST SET OF INTERROGATORIES (NO. 6)**

Pursuant to Rules 26 and 33 of the Federal Rules of Civil Procedure, Defendant and Counterclaim-Plaintiff Apple, Inc. ("Apple") objects and responds to the interrogatories served by Plaintiff and Counterclaim-Defendant Motorola Mobility, Inc. ("Motorola Mobility") and Counterclaim-Defendant Motorola, Inc. ("Motorola") (collectively, the "Counterclaim-Defendants") as follows.

**GENERAL OBJECTIONS**

Plaintiffs reiterate and incorporate by reference their objections to Counterclaim-Defendants' First Set of Interrogatories, as if specifically stated herein.

**FURTHER OBJECTIONS AND RESPONSES**

**INTERROGATORY NO. 6**

For each claim of the Apple Asserted Patents that you allege Counterclaim-Defendants have infringed or are infringing, describe the complete basis for your contention that Counterclaim-Defendants are infringing or have infringed that claim by describing in a claim chart on an element-by-element basis where each element of each Asserted Claim can be found in each Accused Instrumentality of Counterclaim-Defendants that you contend infringes that claim, whether such alleged infringement is literal or by equivalents, how 35 U.S.C. § 112(6) is satisfied, if applicable, and whether such alleged infringement is direct (*i.e.*, under 35 U.S.C. § 271(a)) or indirect (*i.e.*, under 35 U.S.C. §§ 271(b) or (c)).

**RESPONSE TO INTERROGATORY NO. 6**

In addition to its General Objections, Apple objects to this interrogatory as vague and ambiguous, overly broad, and unduly burdensome. Apple further objects to this interrogatory to the extent that it seeks information that is (a) protected by the attorney-client privilege or work product doctrine; (b) confidential, proprietary, or trade secret; (c) subject to Apple's legal or contractual obligation of nondisclosure or confidentiality to a third party; and/or (d) public or readily available to Counterclaim-Defendants. Apple further objects to the extent this interrogatory calls for a legal conclusion. Apple also

objects to this contention interrogatory as premature because, among other things, Counterclaim-Defendants have not yet produced documents or information about its products used to infringe the Apple Asserted Patents. Apple expressly reserves the right to amend, supplement, and/or correct its response to this interrogatory as additional information becomes available to Apple during the course of its discovery and investigation, in response to any claim construction by the Court, or in response to Counterclaim-Defendants' responses to Apple's interrogatories (or any supplement thereto).

Subject to its General and Specific Objections, Apple responds as follows: Apple will provide its infringement contentions pursuant to any deadlines the Court may set for the exchange of infringement contentions and will supplement those contentions as appropriate. Apple will provide its expert reports regarding infringement of the Apple Asserted Patents pursuant to any deadlines the Court may set for the exchange of such reports and will supplement those reports as appropriate and necessary and as permitted by the Court.

**SUPPLEMENTAL RESPONSE TO INTERROGATORY NO. 6**

Subject to their General and Specific Objections above, Apple hereby provides its preliminary infringement contentions regarding U.S. Patent Nos. 5,583,560 ("the '560 patent"), 5,594,509 ("the '509 patent"), 5,621,456 ("the '456 patent"), 6,282,646 ("the '646 patent"), 7,380,116 ("the '116 patent"), and 7,657,849 ("the '849 patent"). Based upon presently known information, Apple appends claim charts for each of the aforementioned Patents-in-Suit as follows:

- Ex. A: '560 Patent, claims 1, 2, 4-6, 8, 9, 11-13, 15-16.

- Ex. B: '509 Patent, claims 7-8, 10-11, 14-20, 22-27, 43-52, 54-58, 60-63.
- Ex. C: '456 Patent, claims 1-2, 4-10.
- Ex. D: '646 Patent, claims 1, 10, 13, 14, 16, and 32.
- Ex. E: '116 Patent, claims 1, 8-10, 16, 18-20, 27, 33, 36-38, and 42.
- Ex. F: '849 Patent, claims 1-10, 12-14, and 16-18.

Counterclaim-Defendants infringe or have infringed these claims (collectively, “the Asserted Claims”) by making, using, selling, offering for sale or importing at least the following Accused Products: DCT700, DCT2500, DCT3400, DCT3412, DCT3080, DCT6200, DCT6208, DCT6400, DCT6412, DCX700, DCX3200, DCX3200 P2, DCX3400, DCH70, DCH100, DCH200, DCH3200, DCH3416, DCH6200, DCH6416, DTA100, QIP2500, QIP2708, QIP6200, QIP6416, QIP7100, and QIP7216 (collectively “the Accused Set-Top Boxes”) as well as Bravo, Charm, Citrus, Cliq, Cliq XT, Cliq 2, Defy, Devour, Droid, Droid 2, Droid 2 Global, Droid X, Droid Pro, BackFlip, Flipout, Flipside, i1, Atrix 4G, and Xoom (collectively “the Accused Mobile Devices”). As described in further detail in the appended claim charts, *see* Exs. A-F, each element of each of the Asserted Claims is met by one or more of the Accused Products. Where the basis for infringement is not significantly distinct, Apple has selected a representative Accused Set-Top Box or Accused Mobile Device, as appropriate.

Counterclaim-Defendants directly and indirectly infringe all of the Asserted Claims. Counterclaim-Defendants directly infringe these claims by making, using, offering for sale, or selling the Accused Products within the United States, or by importing the Accused Products into the United States. In addition, Counterclaim-Defendants’ customers directly infringe the Asserted Claims by using the Accused Products, and Counterclaim-Defendants induce this direct infringement of the Asserted

Claims by selling the Accused Products and by providing manuals and other user guides encouraging their customers to use the Accused Products in an infringing manner.

Counterclaim-Defendants further contribute to this direct infringement of the Asserted Claims by selling the Accused Products, which are specifically designed to practice the inventions of the Asserted Claims and have no substantial non-infringing uses. Based on presently known information, Apple contends that the Accused Products made, used, sold, offered for sale or imported by Counterclaim-Defendants infringe one or more of the Asserted Claims literally or, in the alternative, under the doctrine of equivalents.

These contentions are preliminary and based at least in part on publicly available information. Counterclaim-Defendants have not yet provided any discovery in this case and Apple's investigation of Defendants' infringement is ongoing. Accordingly, Apple may identify additional claims that are infringed and additional accused products, including products that Defendants may introduce in the future. Apple expressly reserves the right to amend its response to this Interrogatory to include such products. Also, these contentions are made based on information ascertained to date, and Apple expressly reserves the right to modify or amend the contentions contained herein based on the Court's claim constructions or to reflect additional information that becomes available to Apple as discovery proceeds.

Dated: May 18, 2011

WEIL, GOTSHAL & MANGES LLP

By:  /s/ Jill J. Ho  
Jill J. Ho  
*Attorneys for Apple Inc.*

**CERTIFICATE OF SERVICE**

I HEREBY CERTIFY that on May 18, 2011, I served the foregoing document via electronic mail on all counsel of record identified on the attached Service List.

*/s/ Joanna Lahtinen*

Joanna Lahtinen

**SERVICE LIST**  
**Motorola Mobility, Inc. versus Apple Inc.**  
**Case No. 1:10cv023580-Civ-UU**  
**United States District Court, Southern District of Florida**

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*Attorneys for Motorola Mobility, Inc. and Motorola, Inc.*  
Electronically served via email

**Exhibit A – U.S. Patent No. 5,583,560**

Motorola directly and/or indirectly infringes at least claims 1, 2, 4-6, 8, 9, 11-13, 15-16 of the '560 patent, either literally or through the doctrine of equivalents. Motorola's infringing products include set-top boxes and associated hardware, including but not limited to remote control devices, that provide or operate in conjunction with an interactive user interface for managing or selecting programs or services (e.g., TV programs or DVR functions), including but not limited to the: DCT700, DCT2500, DCT3400, DCT3412, DCT3080, DCT6200, DCT6208, DCT6400, DCT6412, DCX700, DCX3200, DCX3200 P2, DCX3400, DCH70, DCH100, DCH200, DCH3200, DCH3416, DCH6200, DCH6416, DTA100, QIP2500, QIP2708, QIP6200, QIP6416, QIP7100, and QIP7216 (collectively, the "'560 Accused Products").

In addition to Motorola's direct infringement of the claims of the '560 patent through its development, testing, manufacture and use of its devices, Motorola also indirectly infringes at least claims 8, 9, 11, 12, 13, 15, 16 of the '560 patent. Manufacturers, retailers, distributors, end-users and others in the distribution channel of the '560 Accused Products directly infringe this claim by using, selling, offering for sale, and/or importing these devices into the United States. Motorola contributes to and induces the infringement of asserted claims 8, 9, 11, 12, 13, 15, 16 through its promotion and provision of intentional marketing, sale and/or technical support of the '560 Accused Products and associated specialized components in the United States, and through the intentional design, marketing, manufacture, sale, and/or technical support of the '560 Accused Products abroad to induce direct infringement in the United States. Motorola supplies '560 Accused Products and actively encourages the use, sale, offer for sale, and importation of the same in the United States through the promotion and provision of marketing literature and user guides, which induces and results in direct infringement. Upon information and belief, Motorola has known or should have known that these actions would cause direct infringement of the '560 patent and did so with specific intent to encourage direct infringement. Additionally, the '560 Accused Products have no substantial non-infringing uses.

For purposes of this analysis, Apple will examine a representative set-top box, Motorola's DCT3412 as used with Comcast cable service. See, e.g., <http://customer.comcast.com/Pages/FAQViewer.aspx?Guid=f39b3536-8ba2-4fbd-a359-644e00cd0a5a> (Comcast Cable Box User Manuals) (last visited May 18, 2011). All other '560 Accused Products meet the limitations of the asserted claims on the same bases as indicated for the Motorola DCT3412 unless otherwise stated.

These infringement contentions are preliminary and based only on publicly available information as to the '560 Accused Products. Motorola has provided little to no discovery as to its accused products and, in addition, Apple's investigation of Motorola's infringement is ongoing. Based on discovery and Apple's continued investigations, Apple reserves the right to amend these contentions to identify additional bases for infringement and additional accused products, including products that Motorola may introduce in the future. Accordingly, Apple reserves its right to amend these contentions as discovery and its investigation proceeds. Also, these disclosures are made based on information ascertained to date, and Apple expressly reserves the right to



modify or amend the disclosures contained herein based on the Court’s claim constructions or to reflect additional information that becomes available to Apple.

U.S. Patent No. 5,583,560	Infringement Contentions
<p>1. An audio-visual system comprising:</p>	
<p>a transceiver coupled to an audio-visual (A/V) display for receiving audio-visual signals in an electronic signal spectrum from a signal source, said transceiver including an interface generator for displaying a listing interface on said A/V display, said interface generator including a list generator for selectively displaying listing information related to audio-visual programs which may be viewed on said A/V display;</p>	<p>The '560 Accused Products include a transceiver that connects to an audio-visual (A/V) display, such as a TV, and receives audio-visual signals in an electronic signal spectrum from a signal source.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 is a cable TV terminal or set-top box that includes a transceiver and receives cable audio and video content, video-on-demand content, and other information from a cable service provider, such as Comcast, for display on the TV. <i>See, e.g., Ex. A -1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 3 (“The DCT3400 enables a direct digital connection to consumer audio and video devices through IEEE-1394 DTV and HDMI interfaces.”); <b>Ex. A -2</b> [Motorola DCT3400 Specification Sheet]. <i>See generally Ex. A -1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 13-26 (illustrating video connection options).</li> </ul> <p>The transceiver of the '560 Accused Products includes an interface generator for displaying a listing interface on the A/V display.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 includes hardware and software that can display a listing interface for listing TV content or for listing DVR content, such as an interactive program guide. <i>See, e.g., Ex. A -1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 6 (describing “Interactive Program Guide”); <i>id.</i> at 12 (“The DCT3400 can generate on-screen graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The cable terminal overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.”). <i>See also Ex. A -3</i> [Comcast, DVR</li> </ul>

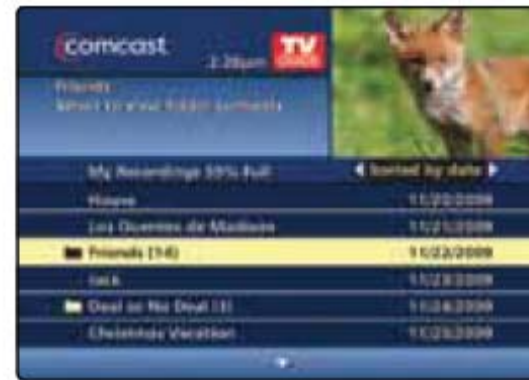
**U.S. Patent No. 5,583,560**

**Infringement Contentions**

Guide, Dual Tuner HD-Capable DVR] at 6 (showing listing of TV content); *id.* at 7 (showing list of DVR content); **Ex. A -4** [Comcast Digital Cable Guide] at 6, 8, 11-12; 23-24.




**Ex. A -3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing listing of TV content)



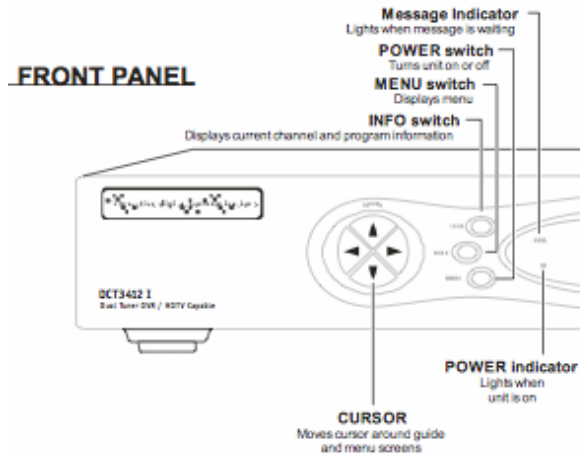
**Ex. A -3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (showing listing of DVR content)

The '560 Accused Products include a list generator for selectively displaying listing information relating to audio-visual programs that may be viewed on the A/V display.

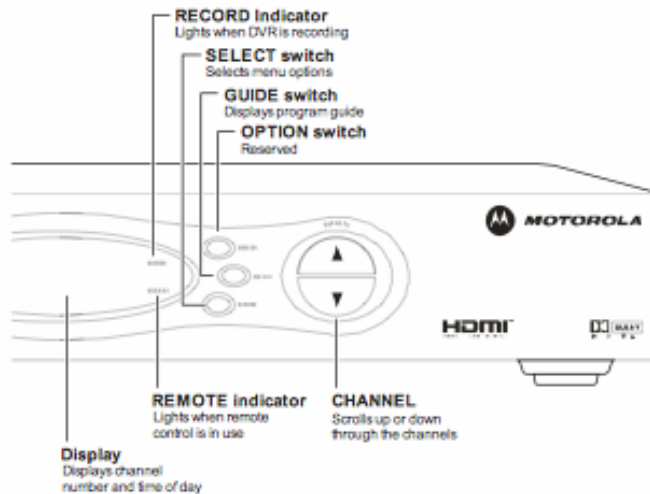
U.S. Patent No. 5,583,560	Infringement Contentions
	<ul style="list-style-type: none"> <li>By way of one example, the DCT3412 includes hardware and software that can generate a list that selectively displays listing information for TV programs or DVR content, such as an interactive program guide, that may be viewed on an A/V display, such as a television screen. <i>See, e.g., Ex. A -1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 12 (“The DCT3400 can generate on-screen graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The cable terminal overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.”); <b>Ex. A -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6-8; <b>Ex. A -4</b> [Comcast Digital Cable Guide] at 11 (explaining how to display more or less channels in the listing information); <b>Ex. A -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6-8 (selecting items in listing interface to display select information about the item); <b>Ex. A -4</b> [Comcast Digital Cable Guide] at 5-17 (same).</li> </ul>  <p>The image shows a screenshot of a Comcast TV listings interface. At the top, it says 'Comcast TV Listings 2:30pm'. Below that, there's a 'TV' logo and a picture of a fish. The main part of the screen is a grid of program listings. Each row represents a different time slot and includes a channel number, a program title, and a 'Watch' button. The listings are:     <ul style="list-style-type: none"> <li>88.35A: Law &amp; Order: Criminal Intent</li> <li>25.8A3: George Lopez</li> <li>58.75.88A: Dallas Restaurant</li> <li>57.75.77: Big Daddy</li> <li>28.58B: The Mentalist</li> </ul>     At the bottom, there's a red button that says 'Watch' and a small icon of a house.   </p> <p><b>Ex. A -4</b> [Comcast Digital Cable Guide] at 11 (selectively displaying TV listings)</p>
<p>a controller in communication with said transceiver for permitting a user viewing said A/V display to selectively display said listing information on said A/V display;</p>	<p>The '560 Accused Products use a controller in communication with the transceiver for permitting a user viewing the A/V display to selectively display the listing information on the A/V display.</p> <ul style="list-style-type: none"> <li>By way of one example, users may use a remote control with the DCT3412 to navigate and selectively display listing information on a TV screen. <i>See, e.g., Ex. A -3</i> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 2, 6-8; <b>Ex. A -4</b> [Comcast</li> </ul>

Digital Cable Guide] at 5-17.

- By way of another example, users may use the control panel of the DCT3412 to navigate and selectively display listing information on a TV screen. See, e.g., **Ex. A -1** [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4-5.

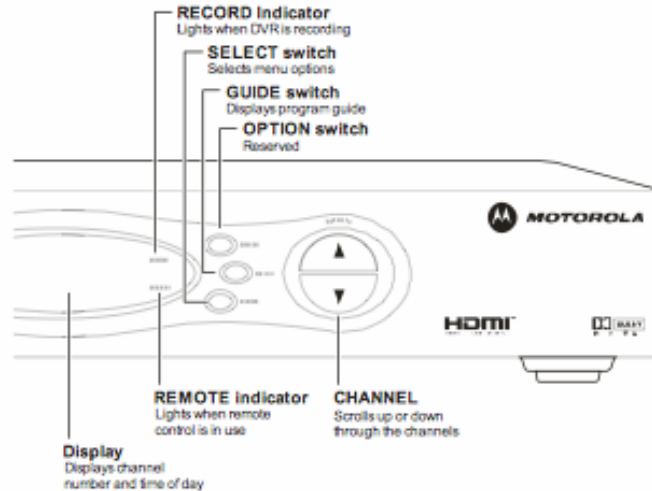


**Ex. A -1** [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4.



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	<p><b>Ex. A -1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 5.</p>
<p>Wherein said controller includes a control having an activator for activating said list generator in said transceiver, the activation of said list generator resulting in said listing interface being displayed on said A/V display; and</p>	<p>The controllers of the '560 Accused Products include a control having an activator for activating the list generator in the transceiver.</p> <ul style="list-style-type: none"> <li>• By way of one example, the remote control used with the DCT3412 includes controls with an activator that activates the interactive program guide. <i>See, e.g., Ex. A -3</i> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 2, 6-8 (explaining buttons to press to enter on-screen guide menus or DVR menus); <b>Ex. A -4</b> [Comcast Digital Cable Guide] at 5-17 (same).</li> <li>• By way of another example, the control panel of the DCT3412 includes controls with an activator that activates the interactive program guide. <i>See, e.g., Ex. A -1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4-5.</li> </ul> <div> </div> <p><b>Ex. A -1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4.</p>

Infringement Contentions



Ex. A -1 [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 5.

- Using either a remote control or the control panel of the DCT3412, the activation thereof results in displaying the interactive program guide on the display device or TV screen, as below.



See, e.g., Ex. A -3 [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 3

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<p>wherein said listing interface includes a picture in a picture (PIP) window in which an audio-visual program viewed by said user prior to said activation of said list generator is displayed in said PIP window.</p>	<p>The listing interface of the '560 Accused Products includes a picture in a picture (PIP) window that displays the audio-visual program that was viewed by the user prior to the activation of the list generator.</p> <ul style="list-style-type: none"> <li>In either case of the DVR or TV listing, the DCT3412 allows for the display of the program that the user was viewing before the activation of the list generator in a picture-in-picture window, as below.</li> </ul> <div> <p>The image shows a Comcast DVR Guide interface. At the top left, it says 'Comcast' and '2:52pm'. A 'TV' icon is in the top right. Below the time, there's a 'Programs' section with a list of programs. A 'Biography' program is highlighted in yellow. In the top right corner, there is a picture-in-picture window showing a close-up of a tiger's face. At the bottom, there is a red banner with a warning icon and the text 'Take charge of your TV viewing. www.comcast.com/terms'. A 'Next Program' button is also visible.</p> </div> <p><b>Ex. A -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing picture-in-picture display of program that user was viewing while also displaying TV listings)</p>

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Ex. A -3 [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (showing picture-in-picture display of program that user was viewing while also displaying DVR listings)



(Screenshot of DCT3412 program guide with Comcast cable service)

2. The audio-visual system as

The '560 Accused Products provide that, upon the activation of the list generator, a listing



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<p>defined by claim 1 wherein upon said activation of said list generator a listing for the audio-visual program displayed in said PIP window is displayed and highlighted.</p>	<p>for the audio-visual program displayed in the PIP window is displayed and highlighted.</p> <ul style="list-style-type: none"> <li>By way of one example, upon entering the display of TV listings, the DCT3412 allows for listing information of the program being displayed in the picture-in-picture window to be displayed and highlighted, as below.</li> </ul> <div> <p>The image shows a Comcast DVR Guide interface. At the top right, there is a picture-in-picture (PIP) window displaying a video of a dog. Below this, a grid of program listings is shown. One listing, 'Magnum', is highlighted in yellow. The interface includes the Comcast logo, a 'TV' icon, and various navigation buttons at the bottom.</p> </div> <p>Ex. A -3 [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6</p>
<p>4. An audio-visual system comprising:</p>	
<p>a transceiver coupled to an audio-visual (A/V) display for receiving audio-visual signals in an electronic signal spectrum from a signal source, said transceiver including an interface generator for displaying a listing interface on said A/V display, said interface generator including a list generator for selectively</p>	<p>The '560 Accused Products include a transceiver that connects to an audio-visual (A/V) display, such as a TV, and receives audio-visual signals in an electronic signal spectrum from a signal source.</p> <ul style="list-style-type: none"> <li>By way of one example, the DCT3412 is a cable TV terminal or set-top box that includes a transceiver and receives cable audio and video content, video-on-demand content, and other information from a cable service provider, such as Comcast, for display on the TV. See, e.g., Ex. A -1 [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 3 (“The DCT3400 enables a direct digital connection to consumer audio and video devices through IEEE-1394 DTV and HDMI interfaces.”); Ex. A -2 [Motorola DCT3400 Specification Sheet]. See generally Ex. A -1 [User</li> </ul>

U.S. Patent No. 5,583,560	Infringement Contentions
<p>displaying listing information related to audio-visual programs which may be viewed on said A/V display;</p>	<p>Guide, DCT3400 Series High Definition DVR Cable Terminal] at 13-26 (illustrating video connection options).</p> <p>The '560 Accused Products include an interface generator for displaying a listing interface on the A/V display.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 includes hardware and software that can display a listing interface for listing TV content or for listing DVR content, such as an interactive program guide. See, e.g., <b>Ex. A -1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 6 (describing “Interactive Program Guide”); <i>id.</i> at 12 (“The DCT3400 can generate on-screen graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The cable terminal overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.”). See also <b>Ex. A -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing listing of TV content); <i>id.</i> at 7 (showing list of DVR content); <b>Ex. A -4</b> [Comcast Digital Cable Guide] at 6, 8, 11-12, 23-24.</li> </ul> <div> <p>The image shows a Comcast DVR Guide interface. At the top, it displays the Comcast logo, the time 2:52pm, and a TV icon. Below this, there's a section for 'Programs' with a list of items including '7:00p', '7:00p', and '7:00p'. A large image of a tiger is visible on the right side. The main part of the screen is a grid of program listings with columns for time, program name, and other details. At the bottom, there's a red banner with a warning icon and the text 'Take charge of your TV viewing. See program details.' and a 'Next' button.</p> </div> <p><b>Ex. A -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing listing of TV content)</p>

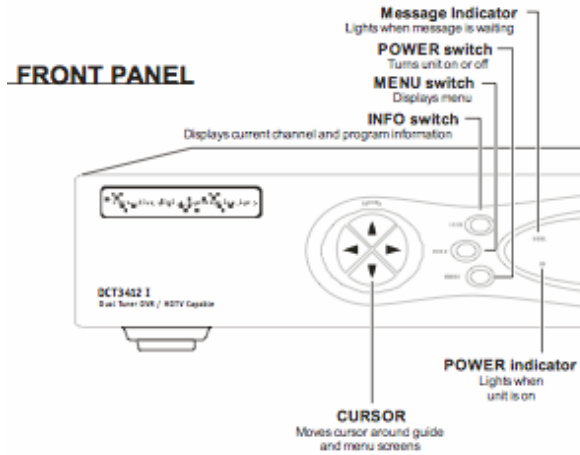


**Ex. A -3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (showing listing of DVR content)

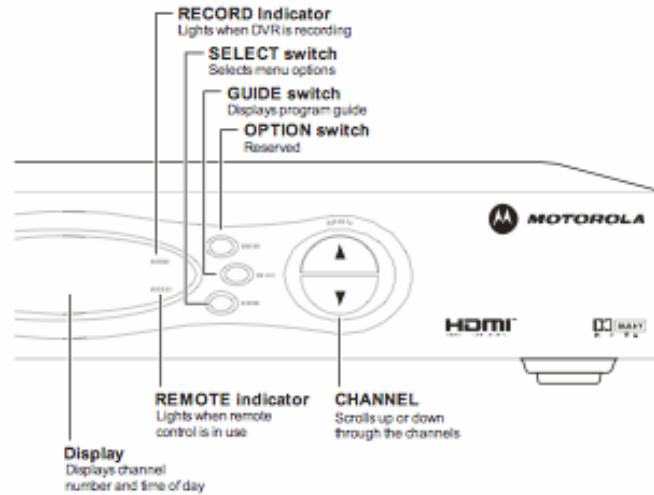
The '560 Accused Products include a list generator for selectively displaying listing information relating to audio-visual programs that may be viewed on the A/V display.

- By way of one example, the DCT3412 includes hardware and software that can generate a list that selectively displays listing information for TV programs or DVR content, such as an interactive program guide, that may be viewed on an A/V display, such as a television screen. *See, e.g., Ex. A -1* [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 12 (“The DCT3400 can generate on-screen graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The cable terminal overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.”); **Ex. A -3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6-8; **Ex. A -4** [Comcast Digital Cable Guide] at 11 (explaining how to display more or less channels in the listing information); **Ex. A -3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6-8 (selecting items in listing interface to display select information about the item); **Ex. A -4** [Comcast Digital Cable Guide] at 5-17 (same).

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	<div> <p>The image shows a Comcast TV listings screen. At the top, it says 'Comcast TV Listings 2:58pm'. Below that, there's a section for 'Summer Fun Favorites' with a 'TV' icon and a 'TV Guide' icon. The main part of the screen is a grid of program listings for the week of July 1st. The grid has columns for 'Today', '7:30p', '9:00p', and '9:30p'. The rows show various programs like 'Law &amp; Order: Criminal Intent', 'George Lopez', 'Criminal Minds', 'Big Brother', and 'Summer Fun Favorites'. There's also a small image of a fish in the top right corner.</p> </div> <p><b>Ex. A -4</b> [Comcast Digital Cable Guide] at 11 (selectively displaying TV listings)</p>
<p>a controller in communication with said transceiver for permitting a user viewing said A/V display to selectively display said listing information on said A/V display;</p>	<p>The '560 Accused Products use a controller in communication with the transceiver for permitting a user viewing the A/V display to selectively display the listing information on the A/V display.</p> <ul style="list-style-type: none"> <li>• By way of one example, users may use a remote control with the DCT3412 to navigate and selectively display listing information on a TV screen. <i>See, e.g., Ex. A -3</i> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 2, 6-8; <b>Ex. A -4</b> [Comcast Digital Cable Guide] at 5-17.</li> <li>• By way of another example, users may use the control panel of the DCT3412 to navigate and selectively display listing information on a TV screen. <i>See, e.g., Ex. A -1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4-5.</li> </ul>



Ex. A -1 [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4.



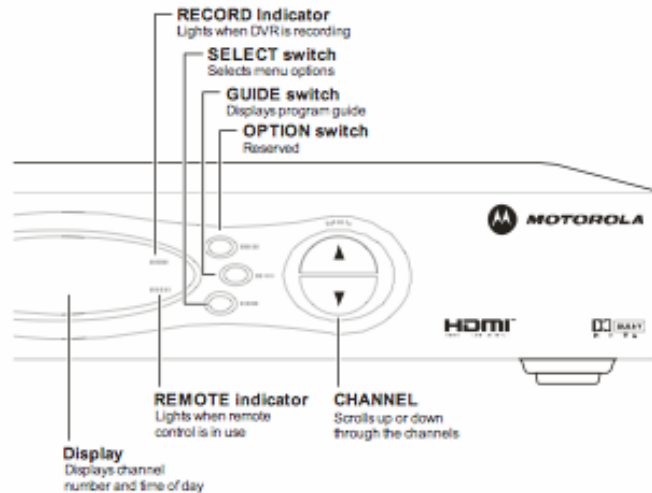
Ex. A -1 [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 5.

wherein said controller includes a control having an

The controllers of the '560 Accused Products include a control having an activator for activating the list generator in the transceiver.

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<p>activator for activating said list generator in said transceiver, the activation of said list generator resulting in said listing interface being displayed on said A/V display;</p>	<ul style="list-style-type: none"> <li>• By way of one example, the remote control used with the DCT3412 includes controls with an activator that activates the interactive program guide. <i>See, e.g., Ex. A -3</i> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 2, 6-8 (explaining buttons to press to enter on-screen guide menus or DVR menus); <b>Ex. A -4</b> [Comcast Digital Cable Guide] at 5-17 (same).</li> <li>• By way of another example, the control panel of the DCT3412 includes controls with an activator that activates the interactive program guide. <i>See, e.g., Ex. A -1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4-5.</li> </ul> <div> </div> <p><b>Ex. A -1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4.</p>

Infringement Contentions









Ex. A -1 [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 5.


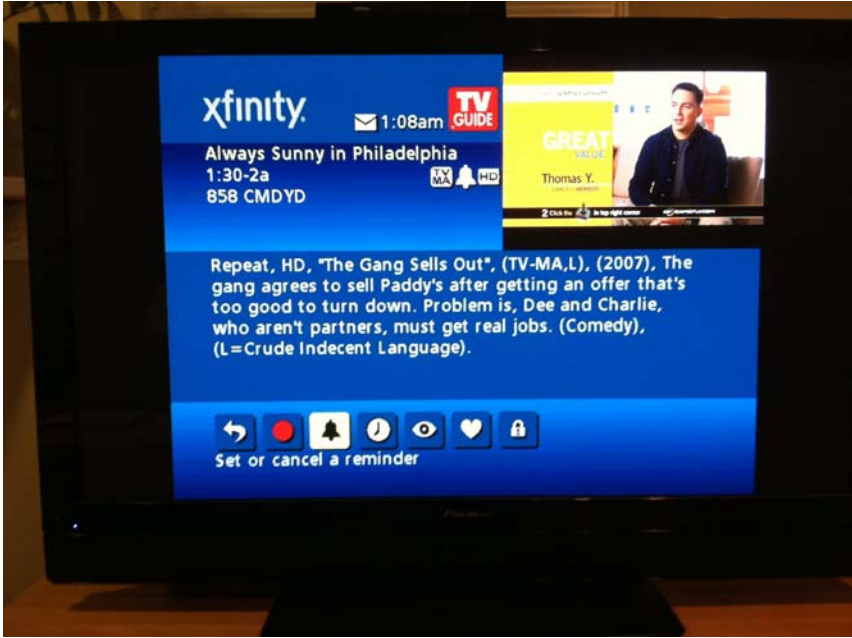
- Using either the remote control or the control panel of the DCT3412, the activation thereof results in displaying the interactive program guide on the display device or TV screen, as below.




Ex. A -3 [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 3

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<p>wherein said interface generator includes a reminder mechanism for identifying audio-visual programs represented in said listing information which said user desires to be reminded of; and</p>	<p>The interface generator of the '560 Accused Products includes a reminder mechanism for identifying audio-visual programs represented in the TV listing that the user wants to be reminded of.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 allows for the interface generator to set reminders of a show displayed in the TV listings. <i>See, e.g., Ex. A -4</i> [Comcast Digital Cable Guide] at 12 (explaining how to set reminders for TV programs from the TV listings).</li> </ul> <div style="border: 1px solid black; background-color: #f4a460; padding: 10px; margin: 10px auto; width: fit-content;"> <p><b>Set Reminders</b></p> <p>.....</p> <p>While in TV Listings, highlight the show you want to set a reminder for, press the  button and then select the  icon.</p> </div> <p style="text-align: right;"><i>See, e.g., Ex. A -4</i> [Comcast Digital Cable Guide] at 17</p>
<p>wherein said reminder mechanism is activated by said user selecting a selected audio-visual program represented in said listing information using first or second buttons and then activating a mark button on said controller.</p>	<p>The reminder mechanism of the '560 Accused Products is activated by the user selecting an audio-visual program in the listing information displayed using first or second buttons and then activating a mark button the controller.</p> <ul style="list-style-type: none"> <li>• By way of one example, the reminder mechanism of the DCT3412 is activated by a user choosing the program from the TV listings using a the up or down keys and then pressing the “info” button on the remote control. By way of further example, the user presses a series of buttons, either on the remote control or the control panel of the DCT3412, to select a reminder icon in the interactive program guide displayed by the DCT3412, and activates the reminder mechanism by pressing the OK button.</li> </ul> <p style="text-align: center;">3. Press the Page   buttons on your remote to view TV channels a page at a time. Use the   buttons to navigate through the listings.</p> <p style="text-align: right;"><i>See, e.g., Ex. A -4</i> [Comcast Digital Cable Guide] at 11 (explaining how to choose a program in the TV</p>



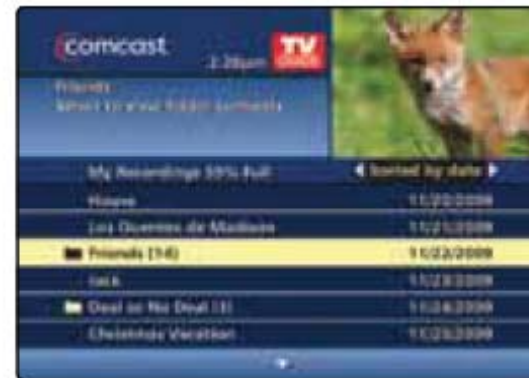
U.S. Patent No. 5,583,560	Infringement Contentions
	<p style="text-align: right;">listings using directional arrow buttons on the remote control)</p> <ul style="list-style-type: none"> <li>Highlight a program in TV Listings. Press the <b>Info</b> button to view the Program Information screen. Select the Remind  icon and follow the prompts to set or cancel a reminder.</li> </ul> <p><i>See, e.g., Ex. A -4 [Comcast Digital Cable Guide] at 12 (explaining the buttons needed to set a reminder)</i></p>
<p>5. The audio-visual system as defined by claim 4 wherein upon said user activating said mark button, said list generator displays a reminder mark adjacent to the listing information corresponding to said selected audio-visual program</p>	<p>Upon activating the button for the reminder mechanism, the '560 Accused Products allow for the display of a reminder mark adjacent to the listing information corresponding to the selected audio-visual program.</p> <ul style="list-style-type: none"> <li>By way of one example, the DCT3412 can display a reminder icon in the shape of a bell next to the selected audio-visual program on the A/V display.</li> </ul>  <p>(Screenshot of DCT3412 program guide with Comcast cable service)</p>

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<p>6. The audio-visual system as defined by claim 4 wherein said list generator displays a reminder at a predefined location on said audio-visual display, on the date and at the time said selected audio-visual program is received by said transceiver.</p>	<p>The list generator of the '560 Accused Products displays a reminder at a predefined location on the audio-visual or TV display, on the date and at the time that the selected audio-visual program to be reminded of is received by the transceiver.</p> <ul style="list-style-type: none"> <li>• By way of one example, after setting a reminder for a program, a reminder is displayed at the bottom of the screen on the date and time that the program is received by the DCT3412.</li> </ul>  <p>(Screenshot of DCT3412 program guide with Comcast cable service)</p>
<p>8. A method for generating and displaying a listing interface on an audio-visual (A/V) system, comprising the steps of:</p>	<p>The '560 Accused Products, such as the DCT3412, allow for the generating and displaying of a listing interface on an audio-visual system, such as on a TV screen, as explained below:</p>

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<p>receiving audio-visual signals in an electronic signal spectrum using a transceiver coupled to an A/V display, said transceiver including an interface generator for displaying said listing interface on said A/V display, said interface generator including a list generator for selectively displaying listing information related to audio-visual programs which may be viewed on said A/V display; and</p>	<p>The '560 Accused Products include a transceiver that connects to an audio-visual (A/V) display, such as a TV, and receives audio-visual signals in an electronic signal spectrum from a signal source.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 is a cable TV terminal or set-top box that includes a transceiver and receives cable audio and video content, video-on-demand content, and other information from a cable service provider, such as Comcast, for display on the TV. <i>See, e.g., Ex. A -1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 3 (“The DCT3400 enables a direct digital connection to consumer audio and video devices through IEEE-1394 DTV and HDMI interfaces.”); <b>Ex. A -2</b> [Motorola DCT3400 Specification Sheet]. <i>See generally Ex. A -1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 13-26 (illustrating video connection options).</li> </ul> <p>The '560 Accused Products include an interface generator for displaying a listing interface on the A/V display.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 includes hardware and software that can display a listing interface for listing TV content or for listing DVR content, such as an interactive program guide. <i>See, e.g., Ex. A -1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 6 (describing “Interactive Program Guide”); <i>id.</i> at 12 (“The DCT3400 can generate on-screen graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The cable terminal overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.”). <i>See also Ex. A -3</i> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing listing of TV content); <i>id.</i> at 7 (showing list of DVR content); <b>Ex. A -4</b> [Comcast Digital Cable Guide] at 6, 8, 11-12; 23-24.</li> </ul>




Ex. A -3 [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing listing of TV content)




Ex. A -3 [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (showing listing of DVR content)

The '560 Accused Products include a list generator for selectively displaying listing information relating to audio-visual programs that may be viewed on the A/V display.


- By way of one example, the DCT3412 includes hardware and software that can generate a list that selectively displays listing information for TV programs or DVR content, such as an interactive program guide, that may be viewed on an A/V display, such as a

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	<p>television screen. <i>See, e.g.</i>, <b>Ex. A -1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 12 (“The DCT3400 can generate on-screen graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The cable terminal overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.”); <b>Ex. A -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6-8; <b>Ex. A -4</b> [Comcast Digital Cable Guide] at 11 (explaining how to display more or less channels in the listing information); <b>Ex. A -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6-8 (selecting items in listing interface to display select information about the item); <b>Ex. A -4</b> [Comcast Digital Cable Guide] at 5-17 (same).</p>  <p><b>Ex. A -4</b> [Comcast Digital Cable Guide] at 11 (selectively displaying TV listings)</p>
<p>a user selectively displaying said listing information on said A/V display using a controller in communication with said transceiver;</p>	<p>Users of the '560 Accused Products can use a controller in communication with the transceiver to selectively display the listing information on the A/V display.</p> <ul style="list-style-type: none"> <li>• By way of one example, users can use a remote control with the DCT3412 to navigate and selectively display listing information on a TV screen. <i>See, e.g.</i>, <b>Ex. A -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 2, 6-8; <b>Ex. A -4</b> [Comcast Digital Cable Guide] at 5-17.</li> </ul>

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<p>activating said list generator in said transceiver, the activation of said list generator resulting in said listing interface being displayed on said A/V display; and</p>	<p>The list generator of the '560 Accused Products can be activated to result in a listing interface being displayed on an A/V display.</p> <ul style="list-style-type: none"> <li>By way of one example, the list generator of the the DCT3412 is activated, which results in TV listings or DVR listings being displayed on a TV screen. <i>See, e.g., Ex. A -3</i> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 2, 6-8 (explaining buttons to press to enter on-screen guide menus or DVR menus); <i>Ex. A -4</i> [Comcast Digital Cable Guide] at 5-17 (same). The activation thereof results in displaying the interactive program guide on the display device or TV screen, as below.</li> </ul>  <p style="text-align: right;"><i>Ex. A -3</i> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 3</p>
<p>displaying in said listing interface a picture in a picture (PIP) window in which an audio-visual program viewed by said user prior to said activation of said list generator is displayed.</p>	<p>The listing interface of the '560 Accused Products includes a picture in a picture (PIP) window that displays the audio-visual program that was viewed by the user prior to the activation of the list generator.</p> <ul style="list-style-type: none"> <li>In either case of the DVR or TV listing, the DCT3412 allows for the display of the program that the user was viewing before the activation of the list generator in a picture-in-picture window, as below.</li> </ul>

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	<div> </div> <p><b>Ex. A -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing picture-in-picture display of program that user was viewing while also displaying TV listings)</p> <div> </div> <p><b>Ex. A -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (showing picture-in-picture display of program that user was viewing while also displaying DVR listings)</p>
<p>9. The method as defined by claim 8 wherein upon said activation of said list generator a listing in said listing</p>	<p>The '560 Accused Products provide that, upon the activation of the list generator, a listing for the audio-visual program displayed in the PIP window is displayed and highlighted.</p> <ul style="list-style-type: none"> <li>• By way of one example, upon entering the display of TV listings, the DCT3412 allows for listing information of the program being displayed in the picture-in-picture window</li> </ul>



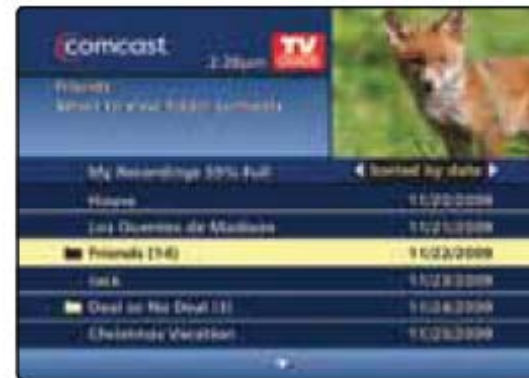
U.S. Patent No. 5,583,560	Infringement Contentions
<p>information for the audio-visual program displayed in said PIP window is highlighted.</p>	<p>to be displayed and highlighted, as below.</p>  <p><b>Ex. A -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6</p>
<p>11. A method for generating and displaying a listing interface on an audio-visual (A/V) system, comprising the steps of:</p>	<p>The '560 Accused Products, such as the DCT3412, include an audio-visual system for generating and displaying a listing interface, as explained below:</p>



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<p>receiving audio-visual signals in an electronic signal spectrum using a transceiver coupled to an A/V display, said transceiver including an interface generator for displaying said listing interface on said A/V display, said interface generator including a list generator for selectively displaying listing information related to audio-visual programs which may be viewed on said A/V display;</p>	<p>The '560 Accused Products include a transceiver that connects to an audio-visual (A/V) display, such as a TV, and receives audio-visual signals in an electronic signal spectrum from a signal source.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 is a cable TV terminal or set-top box that includes a transceiver and receives cable audio and video content, video-on-demand content, and other information from a cable service provider, such as Comcast, for display on the TV. <i>See, e.g., Ex. A -1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 3 (“The DCT3400 enables a direct digital connection to consumer audio and video devices through IEEE-1394 DTV and HDMI interfaces.”); <b>Ex. A -2</b> [Motorola DCT3400 Specification Sheet]. <i>See generally Ex. A -1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 13-26 (illustrating video connection options).</li> </ul> <p>The '560 Accused Products include an interface generator for displaying a listing interface on the A/V display.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 includes hardware and software that can display a listing interface for listing TV content or for listing DVR content, such as an interactive program guide. <i>See, e.g., Ex. A -1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 6 (describing “Interactive Program Guide”); <i>id.</i> at 12 (“The DCT3400 can generate on-screen graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The cable terminal overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.”). <i>See also Ex. A -3</i> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing listing of TV content); <i>id.</i> at 7 (showing list of DVR content); <b>Ex. A -4</b> [Comcast Digital Cable Guide] at 6, 8, 11-12, 23-24.</li> </ul>




Ex. A -3 [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing listing of TV content)










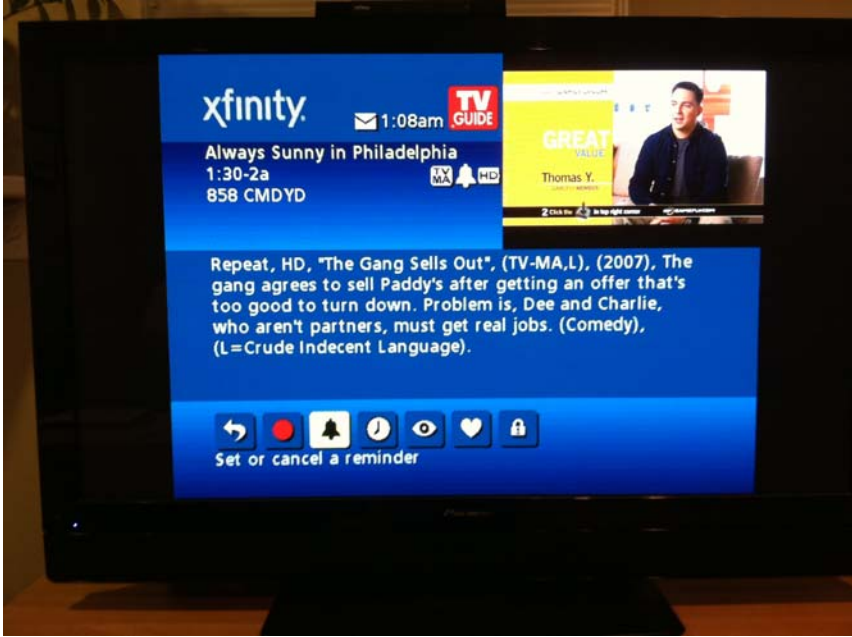
Ex. A -3 [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (showing listing of DVR content)


The '560 Accused Products include a list generator for selectively displaying listing information relating to audio-visual programs that may be viewed on the A/V display.






- By way of one example, the DCT3412 includes hardware and software that can generate a list that selectively displays listing information for TV programs or DVR content, such as an interactive program guide, that may be viewed on an A/V display, such as a

U.S. Patent No. 5,583,560	Infringement Contentions
	<p>television screen. <i>See, e.g., Ex. A -1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 12 (“The DCT3400 can generate on-screen graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The cable terminal overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.”); <b>Ex. A -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6-8; <b>Ex. A -4</b> [Comcast Digital Cable Guide] at 11 (explaining how to display more or less channels in the listing information); <b>Ex. A -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6-8 (selecting items in listing interface to display select information about the item); <b>Ex. A -4</b> [Comcast Digital Cable Guide] at 5-17 (same).</p>  <p><b>Ex. A -4</b> [Comcast Digital Cable Guide] at 11 (selectively displaying TV listings)</p>
<p>a user selectively displaying said listing information on said A/V display using a controller in communication with said transceiver;</p>	<p>Users of the '560 Accused Products can use a controller in communication with the transceiver to selectively display the listing information on the A/V display.</p> <ul style="list-style-type: none"> <li>• By way of one example, users can use a remote control with the DCT3412 to navigate and selectively display listing information on a TV screen. <i>See, e.g., Ex. A -3</i> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 2, 6-8; <b>Ex. A -4</b> [Comcast Digital Cable Guide] at 5-17.</li> </ul>
<p>wherein said interface</p>	<p>The interface generator of the '560 Accused Products includes a reminder mechanism for</p>

U.S. Patent No. 5,583,560	Infringement Contentions
<p>generator includes a reminder mechanism for identifying audio-visual programs represented in said listing information which said user desires to be reminded of; and</p>	<p>identifying audio-visual programs represented in the TV listing that the user wants to be reminded of.</p> <ul style="list-style-type: none"> <li>By way of one example, the DCT3412 allows for the interface generator to set reminders of a show displayed in the TV listings. <i>See, e.g., Ex. A -4</i> [Comcast Digital Cable Guide] at 12 (explaining how to set reminders for TV programs from the TV listings).</li> </ul> <div style="border: 1px solid black; background-color: #f4a460; padding: 10px; margin: 10px auto; width: fit-content;"> <p><b>Set Reminders</b>  .....  While in TV Listings, highlight the show you want to set a reminder for, press the  button and then select the  icon.</p> </div> <p style="text-align: right;"><i>See, e.g., Ex. A -4</i> [Comcast Digital Cable Guide] at 17</p>
<p>activating said reminder mechanism by said user selecting an audio-visual program represented in said listing information using said first or second buttons and then activating a mark button on said controller.</p>	<p>The reminder mechanism of the '560 Accused Products is activated by the user selecting an audio-visual program in the listing information displayed using first or second buttons and then activating a mark button the controller.</p> <ul style="list-style-type: none"> <li>By way of one example, the reminder mechanism of the DCT3412 is activated by a user choosing the program from the TV listings using a the up or down keys and then pressing the “info” button on the remote control. By way of further example, the user presses a series of buttons, either on the remote control or the control panel of the DCT3412, to select a reminder icon in the interactive program guide displayed by the DCT3412, and activates the reminder mechanism by pressing the OK or Select button.</li> </ul> <p style="text-align: center;">3. Press the Page   buttons on your remote to view TV channels a page at a time. Use the   buttons to navigate through the listings.</p> <p style="text-align: center;"><i>See, e.g., Ex. A -4</i> [Comcast Digital Cable Guide] at 11 (explaining how to choose a program in the TV listings using directional arrow buttons on the remote control)</p>

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	<ul style="list-style-type: none"> <li>Highlight a program in TV Listings. Press the <b>Info</b> button to view the Program Information screen. Select the Remind  icon and follow the prompts to set or cancel a reminder.</li> </ul> <p><i>See, e.g., Ex. A -4 [Comcast Digital Cable Guide] at 12 (explaining the buttons needed to set a reminder)</i></p>
<p>12. The method as defined by claim 11 wherein upon said user activating said mark button, said list generator displays a reminder mark adjacent to said listing information corresponding to said audio-visual program.</p>	<p>Upon activating the button for the reminder mechanism, the '560 Accused Products allow for the display of a reminder mark adjacent to the listing information corresponding to the selected audio-visual program.</p> <ul style="list-style-type: none"> <li>By way of one example, the DCT3412 can display a reminder icon in the shape of a bell next to the selected audio-visual program on the A/V display.</li> </ul>  <p>(Screenshot of DCT3412 program guide with Comcast cable service)</p>
<p>13. The method as defined by</p>	<p>The list generator of the '560 Accused Products displays a reminder at a predefined location</p>

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<p>claim 12 wherein said list generator displays a reminder at a predefined location on said A/V display, on the date and at the time said audiovisual program is received by said transceiver.</p>	<p>on the audio-visual or TV display, on the date and at the time that the selected audio-visual program to be reminded of is received by the transceiver.</p> <ul style="list-style-type: none"> <li>By way of one example, after setting a reminder for a program, a reminder is displayed at the bottom of the screen on the date and time that the program is received by the DCT3412.</li> </ul>  <p>(Screenshot of DCT3412 program guide with Comcast cable service)</p>
<p>15. The method as defined by claim 11 wherein said list generator further includes a record mechanism for recording selected audio-visual programs on a storage device coupled to said transceiver.</p>	<p>The list generator of the '560 Accused Products further includes a record mechanism for recording selected audio-visual programs on a storage device coupled to said transceiver.</p> <ul style="list-style-type: none"> <li>By way of one example, the DCT3412 includes a hard drive for digital video recording functionality coupled to the transceiver. <i>See, e.g., Ex. A-1</i> [Comcast DCT3400 User Manual] at 3.</li> <li>By way of another example, the DCT3412 includes a mechanism for recording audio-</li> </ul>

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	<p>visual programs to a VCR or other device coupled to the transceiver of the DCT3412. <i>See, e.g., Ex. A-1</i> [Comcast DCT3400 User Manual] at 28-29.</p>
<p>16. The method as defined by claim 15 wherein said record mechanism is activated by said user selecting an audio-visual program represented in said listing information using said first or second buttons and then activating a record button on said controller.</p>	<p>The record mechanism of the '560 Accused Products is activated by the user selecting an audio-visual program represented in the listing information using first or second buttons and then activating a record button on said controller.</p> <ul style="list-style-type: none"> <li>• By way of one example, the record mechanism of the DCT3412 is activated by a user choosing the program from the TV listings using a the up or down keys and then pressing the “record” button on the remote control or selecting the record icon using the control panel. <i>See, e.g., Ex. A -4</i> [Comcast Digital Cable Guide] at 1.</li> </ul> <p>3. Press the Page   buttons on your remote to view TV channels a page at a time. Use the   buttons to navigate through the listings.</p> <p><i>See, e.g., Ex. A -4</i> [Comcast Digital Cable Guide] at 11 (explaining how to choose a program in the TV listings using directional arrow buttons on the remote control)</p> <ul style="list-style-type: none"> <li>• While viewing TV Listings, highlight the program you wish to record and press the Record  button on your remote. A red dot appears in the Program Information window.</li> </ul> <p><i>See, e.g., Ex. A -4</i> [Comcast Digital Cable Guide] at 18 (explaining how to record programs through DVR service)</p>



## **Exhibit B – U.S. Patent No. 5,594,509**

Motorola directly and/or indirectly infringes at least claims 7-8, 10-11, 14-20, 22-27, 43-52, 54-58, 60-63 of the '509 patent, either literally or through the doctrine of equivalents. Motorola's infringing products include set-top boxes and associated hardware, including but not limited to remote control devices, that provide or operate in conjunction with an interactive user interface for managing or selecting programs or services (e.g., TV programs or DVR functions), including but not limited to the: DCT700, DCT2500, DCT3400, DCT3412, DCT3080, DCT6200, DCT6208, DCT6400, DCT6412, DCX700, DCX3200, DCX3200 P2, DCX3400, DCH70, DCH100, DCH200, DCH3200, DCH3416, DCH6200, DCH6416, DTA100, QIP2500, QIP2708, QIP6200, QIP6416, QIP7100, and QIP7216 (collectively, the "'509 Accused Products").

In addition to Motorola's direct infringement of the claims of the '509 patent through its development, testing, manufacture and use of its devices, Motorola also indirectly infringes at least claim 43 and its asserted dependent claims of the '509 patent. Manufacturers, retailers, distributors, end-users and others in the distribution channel of the '509 Accused Products directly infringe this claim by using, selling, offering for sale, and/or importing these devices into the United States. Motorola contributes to and induces the infringement of asserted claim 43 and its asserted dependent claims through its promotion and provision of intentional marketing, sale and/or technical support of the '509 Accused Products and associated specialized components in the United States, and through the intentional design, marketing, manufacture, sale, and/or technical support of the '509 Accused Products abroad to induce direct infringement in the United States. Motorola supplies '509 Accused Products and actively encourages the use, sale, offer for sale, and importation of the same in the United States through the promotion and provision of marketing literature and user guides, which induces and results in direct infringement. Upon information and belief, Motorola has known or should have known that these actions would cause direct infringement of the '509 patent and did so with specific intent to encourage direct infringement. Additionally, the '509 Accused Products have no substantial non-infringing uses.

For purposes of this analysis, Apple will examine a representative set-top box, Motorola's DCT3412 as used with Comcast cable service. See, e.g., <http://customer.comcast.com/Pages/FAQViewer.aspx?Guid=f39b3536-8ba2-4fbd-a359-644e00cd0a5a> (Comcast Cable Box User Manuals) (last visited May 18, 2011). All other '509 Accused Products meet the limitations of the asserted claims on the same bases as indicated for the Motorola DCT3412 unless otherwise stated.

These infringement contentions are preliminary and based only on publicly available information as to the '509 Accused Products. Motorola has provided little to no discovery as to its accused products and, in addition, Apple's investigation of Motorola's infringement is ongoing. Based on discovery and Apple's continued investigations, Apple reserves the right to amend these contentions to identify additional bases for infringement and additional accused products, including products that Motorola may introduce in the future. Accordingly, Apple reserves its right to amend these contentions as discovery and its investigation



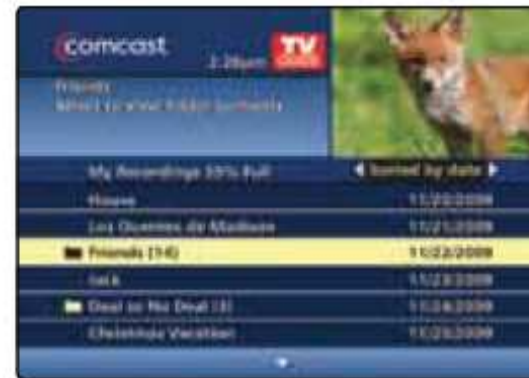
proceeds. Also, these disclosures are made based on information ascertained to date, and Apple expressly reserves the right to modify or amend the disclosures contained herein based on the Court’s claim constructions or to reflect additional information that becomes available to Apple.

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7. An interactive user interface and audio-visual (A/V) system, comprising:	
<p>a transceiver coupled to an audio-visual (A/V) display for receiving audio-visual signals in an electronic signal spectrum from a signal source, said transceiver including interface generation means for causing said A/V display to display an interface, said interface including selectively displayed multiple levels of information related to an audio-visual program viewed on said A/V display;</p>	<p>The '509 Accused Products include a transceiver coupled to an A/V display for receiving A/V signals, said transceiver including interface generation means for displaying an interface on said A/V display.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 is a cable TV terminal or set-top box that includes a transceiver and receives cable audio and video content, video-on-demand content, and other information from a cable service provider, such as Comcast, for display on the TV. <i>See, e.g., Ex. B-1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 3 (“The DCT3400 enables a direct digital connection to consumer audio and video devices through IEEE-1394 DTV and HDMI interfaces.”); <b>Ex. B-2</b> [Motorola DCT3400 Specification Sheet]. <i>See generally Ex. B-1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 13-26 (illustrating video connection options).</li> <li>• By way of one example, the DCT3412 includes hardware and software that can display an interface on a TV screen. <i>See, e.g., Ex. B-1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 6 (describing “Interactive Program Guide”); <i>id.</i> at 12 (“The DCT3400 can generate on-screen graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The cable terminal overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.”). <i>See also Ex. B-3</i> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing interface displayed on TV screen); <i>id.</i> at 7 (same);</li> </ul>

Ex. B-4 [Comcast Digital Cable Guide] at 6, 8, 11-12; 23-24.



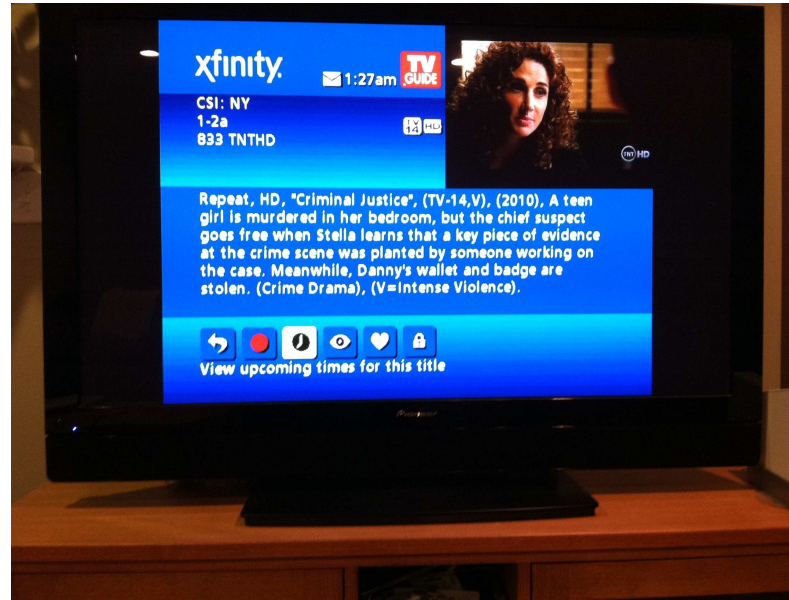
Ex. B-3 [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (example of interface displayed on TV screen)



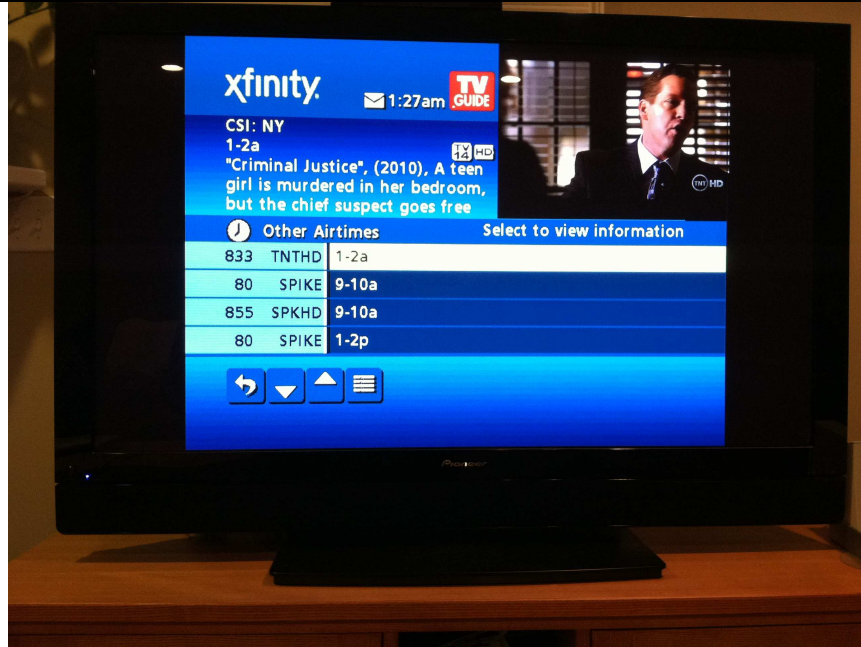
Ex. B-3 [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (same)

The interface of the '509 Accused Products includes selectively displayed multiple levels of information related to an audio-visual program viewed on an A/V display.

- By way of one example, the DCT3412 selectively displays multiple level of information related to a TV program on the TV display. For example, the DCT3412 allows a user to view a summary of a particular program and, by selecting the appropriate icon and pressing the appropriate buttons, also view upcoming times for that particular program. See, e.g., **Ex. B-4** [Comcast Digital Cable Guide] at 12.



(Screenshot of DCT3412 program guide with Comcast cable service)



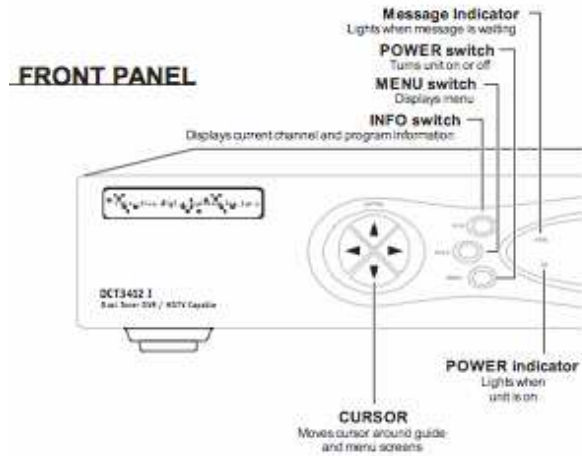
(Screenshot of DCT3412 program guide with Comcast cable service)

control means in communication with said transceiver for permitting a user viewing said A/V display to selectively display said multiple levels of information on said A/V display;

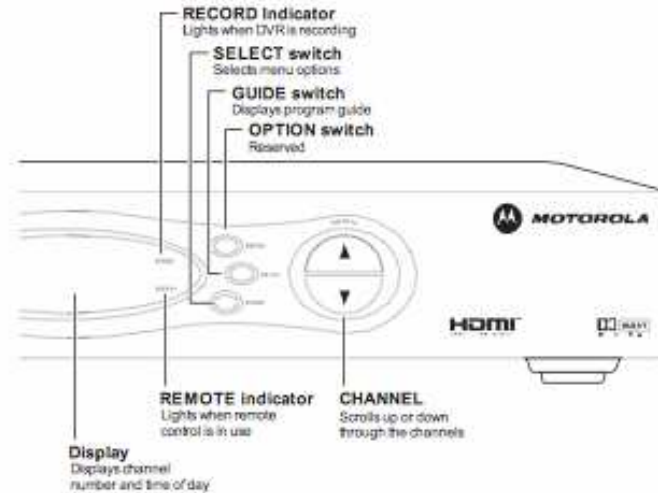
A control means is in communication with the transceiver of the '509 Accused Products for permitting a user viewing the A/V display to selectively display multiple levels of information on the A/V display.

- By way of one example, users may use a remote control with the DCT3412 to selectively display multiple levels of information about an A/V program on a TV screen. See, e.g., **Ex. B-3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 2 (illustrating remote control for use with DCT3412); **Ex. B-4** [Comcast Digital Cable Guide] at 5 (same).
- By way of another example, users may use the control panel of the DCT3412 to selectively display multiple levels of information about an A/V program on a TV screen. See, e.g., **Ex. B-1** [User Guide, DCT3400 Series High Definition DVR Cable

Terminal] at 4-5.



Ex. B-1 [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4.

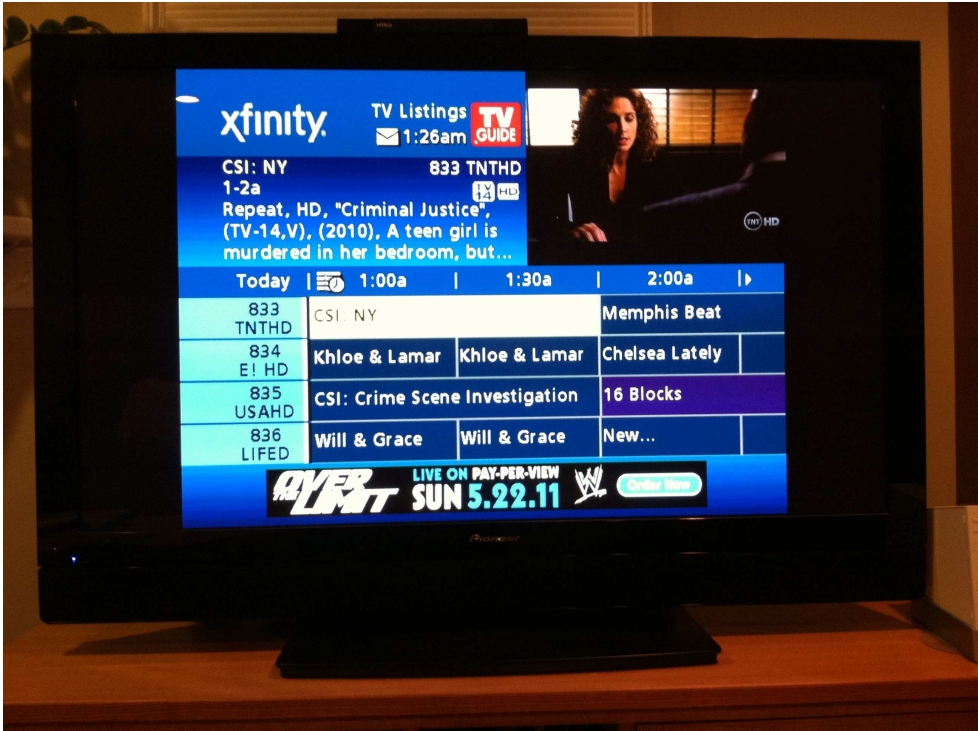


Ex. B-1 [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 5.

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<p>wherein said transceiver further includes a switcher and at least one tuner/demodulator coupled to said signal source; said switcher coupling said at least one tuner/demodulator to said A/V display and a storage means, for switching digital and analog A/V data between said signal source, said A/V display and said storage means,</p>	<p>The transceiver of the '509 Accused Products includes a switcher and at least one tuner/demodulator coupled to the signal source, wherein the switcher couples the tuner/demodulator to the A/V display and a storage means, for switching digital and analog A/V data between the signal source, the A/V display, and the storage means.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 is a cable TV terminal or set-top box that includes a transceiver and receives cable audio and video content, video-on-demand content, and other information from a cable service provider, such as Comcast, for display on the TV. The DCT3412 also includes a storage means by way of its DVR functionality. By way of one example, upon information and belief, the DCT3412 includes a switcher and a tuner/demodulator coupled to the signal source for receiving content from the cable service provider. By way of one further example, upon information and belief, the DCT3412 includes a switcher that couples the tuner/demodulator with the TV display, a storage means such as that of the DVR. <i>See generally</i> <b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal].</li> <li>• By way of one example, the DCT3412 is able to record and store A/V programs on a storage means. <i>See, e.g.,</i> <b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 7 (describing DVR functionality of the DCT3412).</li> <li>• By way of one example, upon information and belief, the DCT3412 includes hardware and software that allows the DVR of the DCT3412 to record content that is digital or analog. <i>See, e.g.,</i> <b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 7 (describing DVR functionality of the DCT3412).</li> </ul>
<p>said transceiver further including</p>	
<p>at least one processor unit,</p>	<p>The transceiver of the '509 Accused Products includes at least one processor unit.</p> <ul style="list-style-type: none"> <li>• By way of one example, upon information and belief, the DCT3412 is a cable TV</li> </ul>

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	terminal or set-top box that includes a transceiver with at least one processor unit. <i>See generally</i> <b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal].
at least one system memory unit, and	<p>The transceiver of the '509 Accused Products includes at least one system memory unit.</p> <ul style="list-style-type: none"> <li>• By way of one example, upon information and belief, the DCT3412 is a cable TV terminal or set-top box that includes a transceiver with at least one system memory unit. <i>See generally</i> <b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal].</li> </ul>
a bus controller cooperatively coupled together for receiving input control and data signals and in response generating output control and data signals for said signal source, said A/V display, and said storage means.	<p>The transceiver of the '509 Accused Products includes a bus controller cooperatively coupled together for receiving input control and data signals and in response generating output control and data signals for the signal source, the A/V display, and the storage means.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 is a cable TV terminal or set-top box that includes a transceiver and receives cable audio and video content, video-on-demand content, and other information from a cable service provider, such as Comcast, for display on the TV. By way of one further example, the DCT3412 also has storage means by way of its DVR functions. Upon information and belief, the transceiver includes a bus controller cooperatively coupled together for receiving input control and data signals and in response generating output control and data signals for the signal source, the A/V display (such as the TV display), and the storage means (such as the DVR storage). <i>See generally</i> <b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal].</li> </ul>
8. The audio-visual system as defined by claim 7 wherein said electronic signal spectrum includes at least one digital program listing channel for downloading program listing data from said signal	<p>The '509 Accused Products obtains data signals from an electronic signal spectrum that includes at least one digital program listing channel for downloading program listing data from the signal source to the system memory.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 is a cable TV terminal or set-top box that includes a transceiver and receives cable audio and video content, video-on-demand content, and other information from a cable service provider, such as</li> </ul>



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source to said system memory.	Comcast, for display on the TV. Upon information and belief, the cable service provider provides at least one digital program listing channel for downloading program listing data to the system memory of the DCT3412. <i>See generally Ex. B-1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal].
10. The audio-visual system as defined by claim 8 wherein said program listing data includes program title data.	<p>The program listing data of the '509 Accused Products includes program title data.</p> <ul style="list-style-type: none"> <li>By way of one example, the DCT3412 provides program listing data that includes program title data.</li> </ul>  <p>(Screenshot of DCT3412 program guide with Comcast cable service)</p>
11. The audio-visual system as defined by claim 8 wherein	The program listing data of the '509 Accused Products includes show time data and channel



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said program listing data includes show time data and channel number data.

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number data.

- By way of one example, the DCT3412 provides program listing data that includes show time data and channel number data.



(Screenshot of DCT3412 program guide with Comcast cable service)

14. The audio-visual system as defined by claim 7 wherein said control means includes a hand held remote control device.

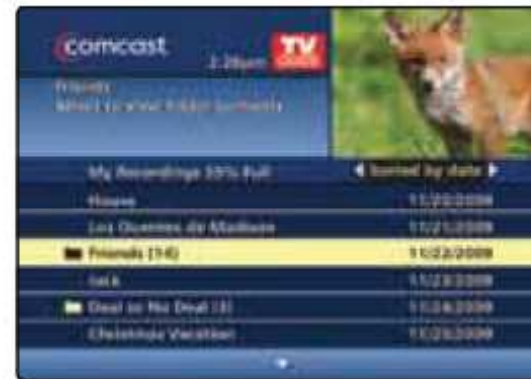
The '509 Accused Products can be controlled by handheld remote control device.

- By way of one example, the DCT3412 can be controlled by handheld remote control device. See, e.g., **Ex. B-3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 2 (illustrating remote control for use with DCT3412); **Ex. B-4** [Comcast Digital Cable Guide] at 5 (same).

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15. An interactive user interface and audio-visual (A/V) system, comprising:	
<p>a transceiver coupled to an audio-visual (A/V) display for receiving audio-visual signals in an electronic signal spectrum from a signal source, said transceiver including interface generation means for causing said A/V display to display an interface, said interface including selectively displayed multiple levels of information related to an audio-visual program viewed on said A/V display;</p>	<p>The '509 Accused Products include a transceiver coupled to an A/V display for receiving A/V signals, said transceiver including interface generation means for displaying an interface on said A/V display.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 is a cable TV terminal or set-top box that includes a transceiver and receives cable audio and video content, video-on-demand content, and other information from a cable service provider, such as Comcast, for display on the TV. <i>See, e.g., Ex. B-1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 3 (“The DCT3400 enables a direct digital connection to consumer audio and video devices through IEEE-1394 DTV and HDMI interfaces.”); <b>Ex. B-2</b> [Motorola DCT3400 Specification Sheet]. <i>See generally Ex. B-1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 13-26 (illustrating video connection options).</li> <li>• By way of one example, the DCT3412 includes hardware and software that can display an interface on a TV screen. <i>See, e.g., Ex. B-1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 6 (describing “Interactive Program Guide”); <i>id.</i> at 12 (“The DCT3400 can generate on-screen graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The cable terminal overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.”). <i>See also Ex. B-3</i> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing interface displayed on TV screen); <i>id.</i> at 7 (same); <b>Ex. B-4</b> [Comcast Digital Cable Guide] at 6, 8, 11-12; 23-24.</li> </ul>



Ex. B-3 [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (example of interface displayed on TV screen)



Ex. B-3 [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (same)

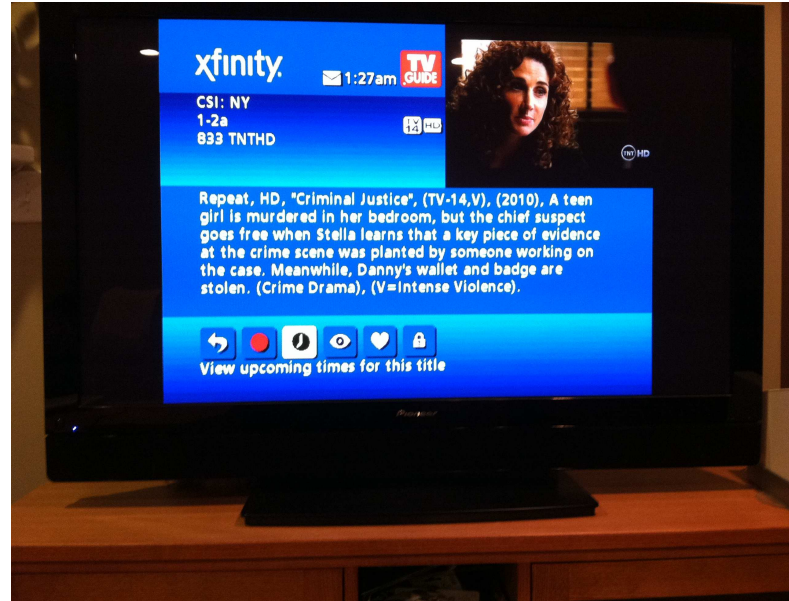
The interface of the '509 Accused Products includes selectively displayed multiple levels of information related to an audio-visual program viewed on an A/V display.

- By way of one example, the DCT3412 selectively displays multiple level of information related to a TV program on the TV display. For example, the

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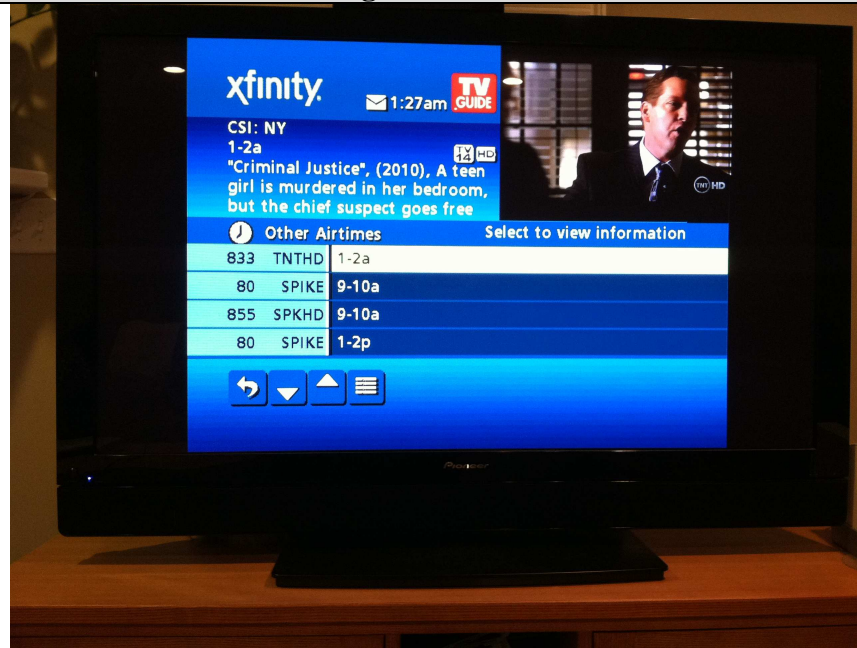
DCT3412 allows a user to view a summary of a particular program and, by selecting the appropriate icon and pressing the appropriate buttons, also view upcoming times for that particular program. *See, e.g., Ex. B-4* [Comcast Digital Cable Guide] at 12 .



(Screenshot of DCT3412 program guide with Comcast cable service)

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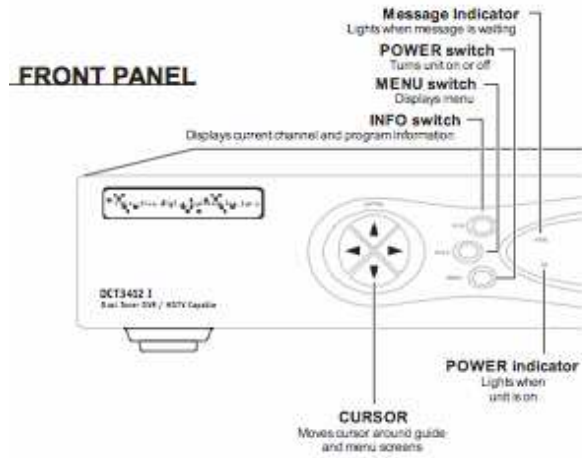
(Screenshot of DCT3412 program guide with Comcast cable service)

control means in communication with said transceiver for permitting a user viewing said A/V display to selectively display said multiple levels of information on said A/V display;

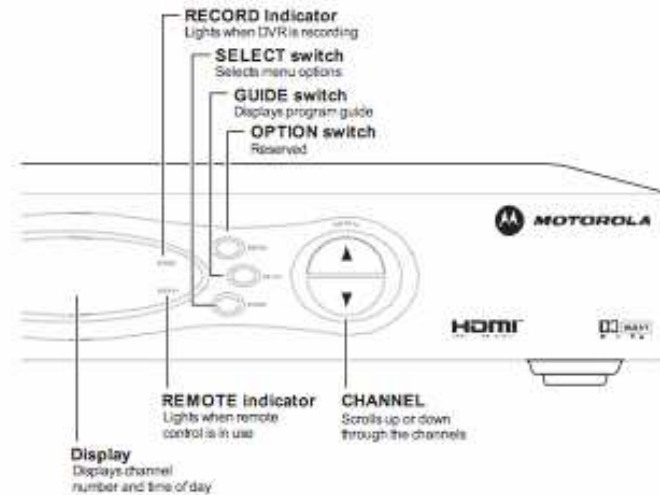
A control means is in communication with the transceiver of the '509 Accused Products for permitting a user viewing the A/V display to selectively display multiple levels of information on the A/V display.

- By way of one example, users may use a remote control with the DCT3412 to selectively display multiple levels of information about an A/V program on a TV screen. See, e.g., **Ex. B-3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 2 (illustrating remote control for use with DCT3412); **Ex. B-4** [Comcast Digital Cable Guide] at 5 (same).
- By way of another example, users may use the control panel of the DCT3412 to selectively display multiple levels of information about an A/V program on a TV screen. See, e.g., **Ex. B-1** [User Guide, DCT3400 Series High Definition DVR Cable

Terminal] at 4-5.



Ex. B-1 [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4.



Ex. B-1 [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 5.



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<p>wherein said interface generation means further includes listing means for causing said A/V display to selectively display a program listing that contains listing information related to A/V programs viewable on said A/V display;</p>	<p>The '509 Accused Products include an interface generation means that further includes a listing means for causing an A/V display to selectively display a program listing related to A/V programs viewable on an A/V display.</p> <ul style="list-style-type: none"> <li>By way of one example, the DCT3412 includes hardware and software that causes an A/V display, such as a TV screen, to selectively display program listing for TV content or DVR content. <i>See, e.g., Ex. B-1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 6 (describing “Interactive Program Guide”); <i>id.</i> at 12 (“The DCT3400 can generate on-screen graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The cable terminal overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.”); <b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (selecting an item to selectively display content about that item); <i>id.</i> at 7 (same); <b>Ex. B-4</b> [Comcast Digital Cable Guide] at 6, 8, 11-12; 23-24 (same).</li> </ul> <div> <p>The image shows a Comcast DVR interface. At the top, there's a Comcast logo and a 'TV' icon. Below that, there's a 'Favorites' section with a 'TV' icon and a 'TV' icon. The main part of the screen is a grid of program listings. The 'Biography' program is highlighted in yellow. At the bottom, there's a red banner with a warning icon and text: 'Take charge of your TV viewing with the new Comcast DVR.' There are also some navigation icons at the bottom right.</p> </div> <p><b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (selectively displaying TV content)</p>



**Ex. B-3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (selectively displaying DVR content)

The displayed program listing of the '509 Accused Products includes information related to A/V programs viewable on an A/V display.

- By way of one example, the displayed program listing of the DCT3412 includes information related to A/V programs viewable on the TV screen. As an example, the displayed program listing can indicate the title and broadcast time of TV programs available for viewing. See, e.g., **Ex. B-3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (displaying listing of TV content). As another example, the displayed program listing can indicate the title and date of recording for DVR-recorded programs. See, e.g., **Ex. B-3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (displaying listing of DVR content).



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	<div> </div> <p><b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing listing of TV content)</p> <div> </div> <ul style="list-style-type: none"> <li>• <b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (showing listing of DVR content)</li> </ul>
<p>wherein said program listing includes a first picture-in-a-picture (PIP) window in which the currently viewed program viewed by said user prior to</p>	<p>The A/V listing interface of the '509 Accused Products displays a picture in a picture (PIP) window in which the audio-visual program that was viewed by the user prior to the activation of the A/V listing means is displayed.</p> <ul style="list-style-type: none"> <li>• In either case of the DVR or TV listing, the DCT3412 allows for the display of the</li> </ul>

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<p>said activation of said listing means is displayed on said A/V display.</p>	<p>program that the user was viewing before the activation of the A/V listing means in a picture-in-picture window, as below.</p> <div> <p>This screenshot shows the Comcast DVR Guide interface. At the top, it displays the Comcast logo, the time 2:52am, and a TV icon. Below this, there's a section for 'Recording' with a '7:30' indicator. The main part of the screen is a grid of program listings. A picture-in-picture window in the top right corner shows a scene with a dog. At the bottom, there's a red banner with a warning icon and the text 'Take charge of your TV viewing with HD DVR recording'.</p> </div> <p><b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing picture-in-picture display of program that user was viewing while also displaying TV listings)</p> <div> <p>This screenshot shows the Comcast DVR Guide interface. At the top, it displays the Comcast logo, the time 2:52am, and a TV icon. Below this, there's a section for 'Recording' with a '7:30' indicator. The main part of the screen is a list of recordings. A picture-in-picture window in the top right corner shows a scene with a dog. At the bottom, there's a red banner with a warning icon and the text 'Take charge of your TV viewing with HD DVR recording'.</p> </div> <p><b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (showing picture-in-picture display of program that user was viewing while also displaying DVR listings)</p>
<p>16. The audio-visual system</p>	<p>The program listing of the '509 Accused Products displays a program listing icon to identify</p>

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as defined by claim 15 wherein said program listing includes a program listing icon to identify to said user that said listing means has been activated.

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to the user that the listing means has been activated.

- By way of one example, the DCT3412 includes hardware and software to display an A/V listing icon to identify to the user that the listing means has been activated. For example, a TV Guide icon is displayed in the upper middle portion of the screen.



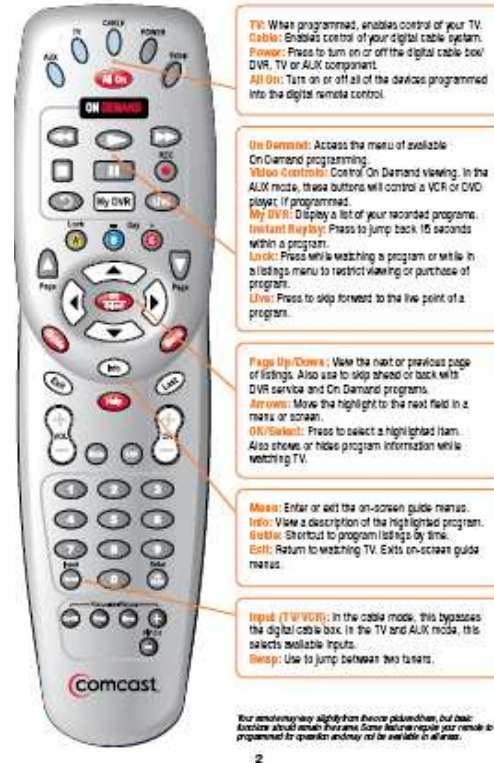
**Ex. B-3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7



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<p>17. The audio-visual system as defined by claim 15 wherein a listing for the currently viewed program that is displayed in said first picture-in-picture (PIP) window is highlighted when said program listing is activated.</p>	<p>(Screenshot of DCT3412 program guide with Comcast cable service)</p> <p>The '509 Accused Products provide that, upon the activation of the program listing, a listing for the currently viewed audio-visual program displayed in the PIP window is highlighted.</p> <ul style="list-style-type: none"> <li>By way of one example, upon entering the display of TV listings, the DCT3412 allows for listing information of the program being displayed in the picture-in-picture window to be highlighted, as below.</li> </ul> <div> <p>The image is a screenshot of a Comcast DVR Guide interface. At the top, it says 'Comcast' and '2:52pm TV'. Below that, there are several program listings. One listing, 'Biography', is highlighted in yellow. In the top right corner, there is a picture-in-picture (PIP) window showing a close-up of a dog's face. At the bottom of the screen, there is a red banner with a warning icon and text: 'Take charge of your TV viewing with Recording DVR Plus!'. The interface has a blue background with various colored buttons and text.</p> </div> <p><b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (highlighting program being viewed in the picture-in-picture window)</p>
<p>18. The audio-visual system as defined by claim 17 wherein said control means includes a remote control device operated by said user having direction arrow buttons, including up, down, left and right buttons.</p>	<p>The audio-visual system of the '509 Accused Products provides a control means that includes a remote control device operated by the user having direction arrow buttons, including up, down, left and right buttons.</p> <ul style="list-style-type: none"> <li>By way of one example, the DCT3412 operates in conjunction with universal remote control devices, such as Motorola's DCR800 and the Comcast remote control device. <i>See, e.g., Ex. B-2</i> [DCT3400 Specification Sheet] at 2; <b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 3.</li> </ul>

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Ex. B-3 [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 2


19. The audio-visual system as defined by claim 18 wherein said program listing scrolls up and down to display additional program listings for said current date and time when said user continues to depress respectively, said up and down buttons on said

The '509 Accused Products allow for users to scroll up and down to display additional program listings for the current date and time by continuing to depress the up or down buttons on the remote control.

- By way of one example, the DCT3412 allows users to scroll through program listings to view additional listings for the current date and time by pressing the up or down buttons of the remote control.

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remote control device.	<p>3. Press the Page   buttons on your remote to view TV channels a page at a time. Use the   buttons to navigate through the listings.</p> <p><b>Ex. B-4</b> [Comcast Digital Cable Guide] at 11 (explaining how to choose a program in the TV listings using directional arrow buttons on the remote control)</p>
<p>20. The audio-visual system as defined by claim 18 wherein depressing said up and down buttons causes a particular program listing to be selected, said particular program listing being thereby highlighted on said A/V display.</p>	<p>The '509 Accused Products allow for program listings to be selected by using up or down buttons on a remote control with the currently selected listed being highlighted on the A/V display.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 allows for program listings to be selected by the up or down buttons on the remote control. <i>See, e.g., Ex. B-4</i> [Comcast Digital Cable Guide] at 11 (explaining how to choose a program in the TV listings using directional arrow buttons on the remote control). Using the remote control, the currently selected listing is highlighted. <i>See, e.g., Ex. B-4</i> [Comcast Digital Cable Guide] at 6 (“Yellow is always the highlight color in the on-screen program guide, and highlighting will always tell you where you are in the on-screen guide.”).</li> </ul> <p>3. Press the Page   buttons on your remote to view TV channels a page at a time. Use the   buttons to navigate through the listings.</p> <p><b>Ex. B-4</b> [Comcast Digital Cable Guide] at 11 (explaining how to choose a program in the TV listings using directional arrow buttons on the remote control)</p>
<p>22. The audio-visual system as defined by claim 15 wherein said program listings are displayed in hourly time slots, programs of less than one hour in duration being displayed adjacent to one another separated by a half</p>	<p>The '509 Accused Products allow for the display of program listings in hourly time slots wherein programs of less than one hour in duration are displayed adjacent to one another separated by a half hour delineation mark.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 allows for program listings to be displayed in hourly time slots. The DCT3412 further allows listings for programs of less than an hour to be displayed next to another program separated by a half-hour delineation mark. <i>See, e.g., Ex. B-4</i> [Comcast Digital Cable Guide] at 11 (screen shot of program listing being displayed in hourly time slots with half-hour delineation marks).</li> </ul>



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hour delineation mark.	 <p><b>Ex. B-4</b> [Comcast Digital Cable Guide] at 11</p>
23. An interactive user interface and audio-visual (A/V) system, comprising:	
a transceiver coupled to an audio-visual (A/V) display for receiving audio-visual signals in an electronic signal spectrum from a signal source, said transceiver including interface generation means for causing said A/V display to display art interface, said interface including selectively displayed multiple levels of information related to an audio-visual program viewed on said A/V display, wherein said multiple levels of	<p>The '509 Accused Products include a transceiver coupled to an A/V display for receiving A/V signals, said transceiver including interface generation means for displaying an interface on said A/V display.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 is a cable TV terminal or set-top box that includes a transceiver and receives cable audio and video content, video-on-demand content, and other information from a cable service provider, such as Comcast, for display on the TV. <i>See, e.g., Ex. B-1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 3 (“The DCT3400 enables a direct digital connection to consumer audio and video devices through IEEE-1394 DTV and HDMI interfaces.”); <b>Ex. B-2</b> [Motorola DCT3400 Specification Sheet]. <i>See generally Ex. B-1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 13-26 (illustrating video connection options).</li> <li>• By way of one example, the DCT3412 includes hardware and software that can display an interface on a TV screen. <i>See, e.g., Ex. B-1</i> [User Guide, DCT3400</li> </ul>

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<p>information include information received by said transceiver over a plurality of information tracks;</p>	<p>Series High Definition DVR Cable Terminal] at 6 (describing “Interactive Program Guide”); <i>id.</i> at 12 (“The DCT3400 can generate on-screen graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The cable terminal overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.”). <i>See also</i> <b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing interface displayed on TV screen); <i>id.</i> at 7 (same); <b>Ex. B-4</b> [Comcast Digital Cable Guide] at 6, 8, 11-12; 23-24.</p> <div> <p>The image shows a Comcast DVR interface on a TV screen. At the top left, the Comcast logo is visible. To its right, there's a 'TV' icon and a '2:50pm' time indicator. Below this, there's a section for 'Favorite' with a '7:30' time and a 'TV' icon. A large video preview window on the right shows a scene with a dog. Below the video, there's a 'Today' section with a '7:30' time and a 'TV' icon. The main part of the screen is a grid of program listings with various colored buttons (yellow, green, purple, blue) and text. At the bottom, there's a red banner with a warning icon and text: 'Take charge of your TV viewing with HD-Ready DVR.' and a 'More Info' button.</p> </div> <p><b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (example of interface displayed on TV screen)</p>





**Ex. B-3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (same)

The interface of the '509 Accused Products includes selectively displayed multiple levels of information related to an audio-visual program viewed on an A/V display received over a plurality of information tracks.

- By way of one example, the DCT3412 selectively displays multiple level of information related to a TV program on the TV display. For example, the DCT3412 allows a user to view a summary of a particular program and, by selecting the appropriate icon and pressing the appropriate buttons, also view upcoming times for that particular program. *See, e.g., Ex. B-4* [Comcast Digital Cable Guide] at 12. By way of further example, the DCT3412 information selectively displays multiple levels of information that, upon information and belief, are received by the transceiver over a plurality of information tracks.

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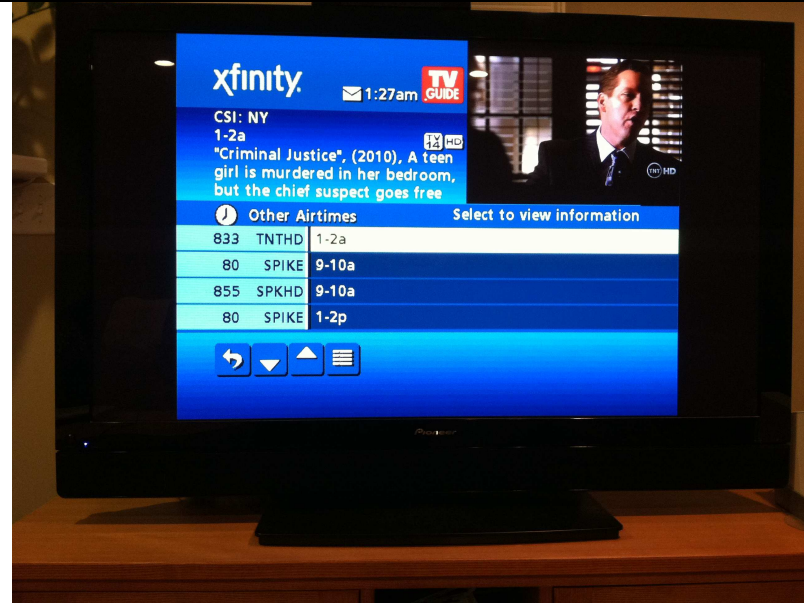
**Infringement Contentions**



(Screenshot of DCT3412 program guide with Comcast cable service)

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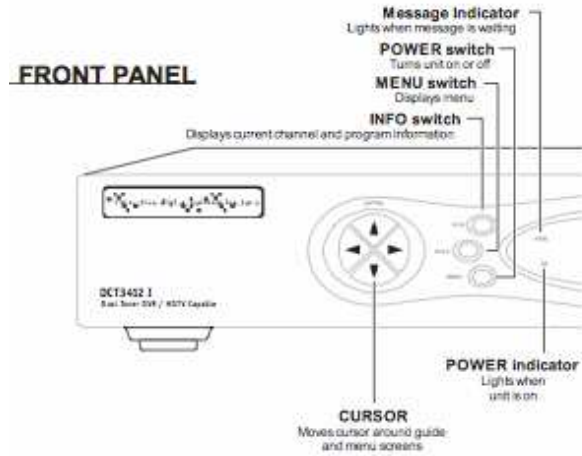


(Screenshot of DCT3412 program guide with Comcast cable service)

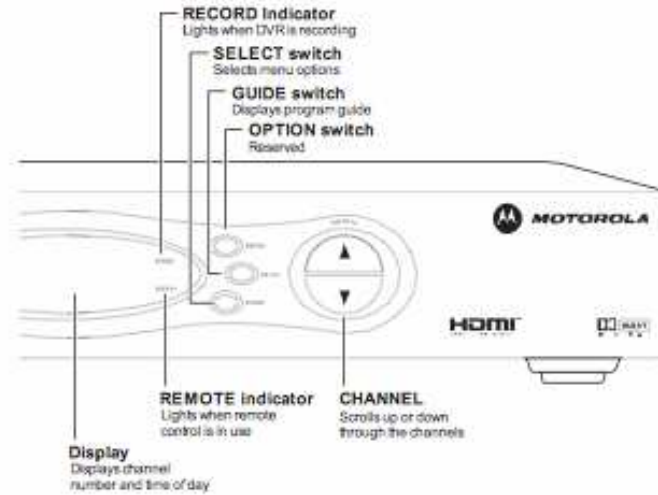
control means in communication with said transceiver for permitting a user viewing said A/V display to selectively display said multiple levels of information on said A/V display;

A control means is in communication with the transceiver of the '509 Accused Products for permitting a user viewing the A/V display to selectively display multiple levels of information on the A/V display.

- By way of one example, users may use a remote control with the DCT3412 to selectively display multiple levels of information about an A/V program on a TV screen. *See, e.g., Ex. B-3* [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 2 (illustrating remote control for use with DCT3412); **Ex. B-4** [Comcast Digital Cable Guide] at 5 (same).
- By way of another example, users may use the control panel of the DCT3412 to selectively display multiple levels of information about an A/V program on a TV screen. *See, e.g., Ex. B-1* [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4-5.



Ex. B-1 [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4.



Ex. B-1 [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 5.

wherein said interface

The '509 Accused Products include an interface generation means that further includes a

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<p>generation means is further includes listing means for causing said A/V display to selectively display a program listing that contains listing information related to A/V programs viewable on said A/V display;</p>	<p>listing means for causing an A/V display to selectively display a program listing related to A/V programs viewable on an A/V display.</p> <ul style="list-style-type: none"> <li>By way of one example, the DCT3412 includes hardware and software that causes an A/V display, such as a TV screen, to selectively display program listing for TV content or DVR content. See, e.g., <b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 6 (describing “Interactive Program Guide”); <i>id.</i> at 12 (“The DCT3400 can generate on-screen graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The cable terminal overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.”); <b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (selecting an item to selectively display content about that item); <i>id.</i> at 7 (same); <b>Ex. B-4</b> [Comcast Digital Cable Guide] at 6, 8, 11-12; 23-24 (same).</li> </ul> <div> <p>The image shows a Comcast DVR Guide interface. At the top, there is a Comcast logo and a 'TV' icon. Below that, there is a header for 'Biography' with a red 'TV' icon. The main area is a grid of program listings. The 'Biography' row is highlighted in yellow. To the right of the grid, there is a video thumbnail showing a person's face. At the bottom, there is a red banner with a white icon and text: 'Take charge of your TV viewing with HD-CAPABLE DVR'. A red 'COMCAST' logo is also visible in the bottom right corner of the banner.</p> </div> <p><b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (selectively displaying TV content)</p>





**Ex. B-3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (selectively displaying DVR content)

The displayed program listing of the '509 Accused Products includes information related to A/V programs viewable on an A/V display.

- By way of one example, the displayed program listing of the DCT3412 includes information related to A/V programs viewable on the TV screen. As an example, the displayed program listing can indicate the title and broadcast time of TV programs available for viewing. See, e.g., **Ex. B-3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (displaying listing of TV content). As another example, the displayed program listing can indicate the title and date of recording for DVR-recorded programs. See, e.g., **Ex. B-3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (displaying listing of DVR content).

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	<div> </div> <p><b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing listing of TV content)</p> <div> </div> <p><b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (showing listing of DVR content)</p>
<p>wherein said interface generation means includes marking means for marking programs on said program listing.</p>	<p>The interface generation means of the '509 Accused Products includes a marking means for marking programs on a program listing.</p> <ul style="list-style-type: none"> <li>• By way of one example, the interface generation means of the DCT3412 includes marking means to set reminders of a show displayed in the TV listings. <i>See, e.g., Ex. B-4</i> [Comcast Digital Cable Guide] at 12 (explaining how to set reminders for TV</li> </ul>

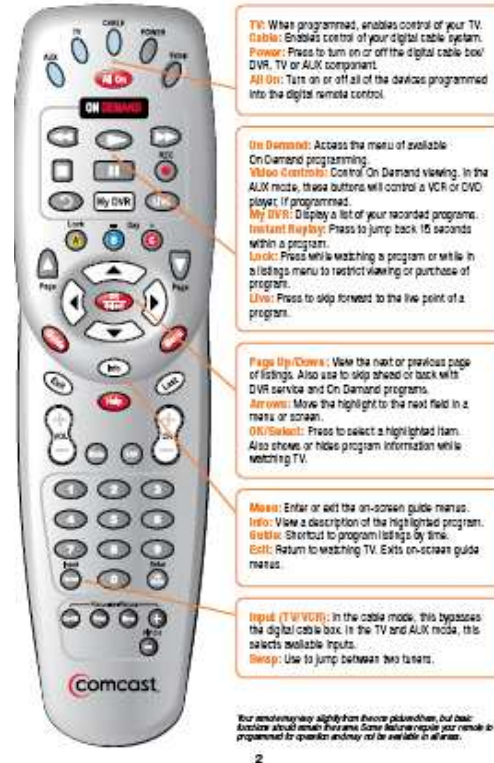


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	<p>programs from the TV listings).</p> <div style="border: 1px solid black; background-color: #f4a460; padding: 10px; margin: 10px auto; width: fit-content;"> <p><b>Set Reminders</b>  .....  While in TV Listings, highlight the show you want to set a reminder for, press the  button and then select the  icon.</p> </div> <p style="text-align: center;"><i>See, e.g., Ex. B-4</i> [Comcast Digital Cable Guide] at 17</p>
<p>24. The audio-visual system as defined by claim 23 wherein said control means includes a remote control device operated by said user having direction arrow buttons, including up, down, left and right buttons.</p>	<p>The audio-visual system of the '509 Accused Products provides a control means that includes a remote control device operated by the user having direction arrow buttons, including up, down, left and right buttons.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 operates in conjunction with universal remote control devices, such as Motorola's DCR800 and the Comcast remote control device. <i>See, e.g., Ex. B-2</i> [DCT3400 Specification Sheet] at 2; <b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 3.</li> </ul>



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



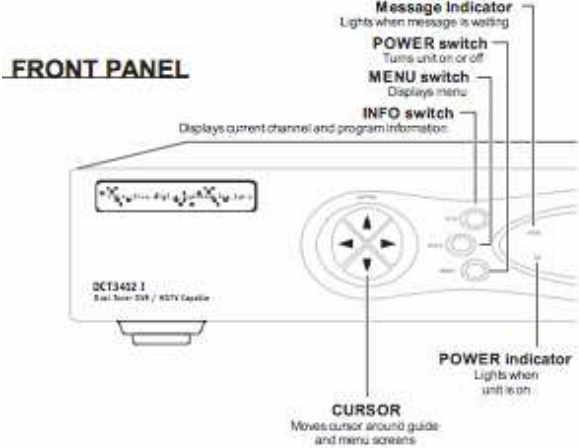


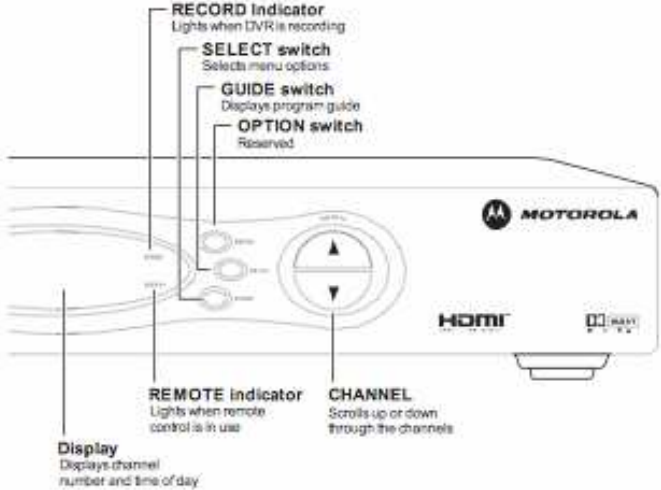
Ex. B-3 [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 2

25. The audio-visual system as defined by claim 22 wherein said marking means is activated by said user choosing a selected program from said program listing using said up and down buttons and then activating a mark button on said remote

The marking means of the '509 Accused Products is activated by the user selecting a program from the program listing using the up and down buttons on the control means, and then activating a mark button on the control means.

- By way of one example, the marking means of the DCT3412 is activated by a user choosing a program from the TV listings using the up and down buttons of the control means, such as the remote control or the front control panel of the DCT3412, and then pressing a button on the control means to mark a program for a reminder.

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control device.	<p>3. Press the Page   buttons on your remote to view TV channels a page at a time. Use the   buttons to navigate through the listings.</p> <p><b>Ex. B-4</b> [Comcast Digital Cable Guide] at 11 (explaining how to choose a program in the TV listings using directional arrow buttons on the remote control)</p> <ul style="list-style-type: none"> <li>Highlight a program in TV Listings. Press the  button to view the Program Information screen. Select the Remind  icon and follow the prompts to set or cancel a reminder.</li> </ul> <p><b>Ex. B-4</b> [Comcast Digital Cable Guide] at 12 (explaining the buttons needed to set a reminder)</p>  <p><b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4.</p>

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	 <p><b>RECORD Indicator</b> Lights when DVR is recording</p> <p><b>SELECT switch</b> Selects menu options</p> <p><b>GUIDE switch</b> Displays program guide</p> <p><b>OPTION switch</b> Reserved</p> <p><b>REMOTE indicator</b> Lights when remote control is in use</p> <p><b>CHANNEL</b> Scrolls up or down through the channels</p> <p><b>Display</b> Displays channel number and time of day</p> <p><b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 5.</p>
<p>26. An interactive user interface and audio-visual (A/V) system, comprising:</p>	
<p>a transceiver coupled to an audio-visual (A/V) display for receiving audio-visual signals in an electronic signal spectrum from a signal source, said transceiver including interface generation means for causing said A/V display to display an interface, said interface including selectively displayed multiple levels of</p>	<p>The '509 Accused Products include a transceiver coupled to an A/V display for receiving A/V signals, said transceiver including interface generation means for displaying an interface on said A/V display.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 is a cable TV terminal or set-top box that includes a transceiver and receives cable audio and video content, video-on-demand content, and other information from a cable service provider, such as Comcast, for display on the TV. <i>See, e.g., Ex. B-1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 3 (“The DCT3400 enables a direct digital connection to consumer audio and video devices through IEEE-1394 DTV and HDMI interfaces.”); <b>Ex. B-2</b> [Motorola DCT3400 Specification Sheet]. <i>See generally Ex. B-1</i> [User Guide, DCT3400 Series High Definition DVR Cable</li> </ul>

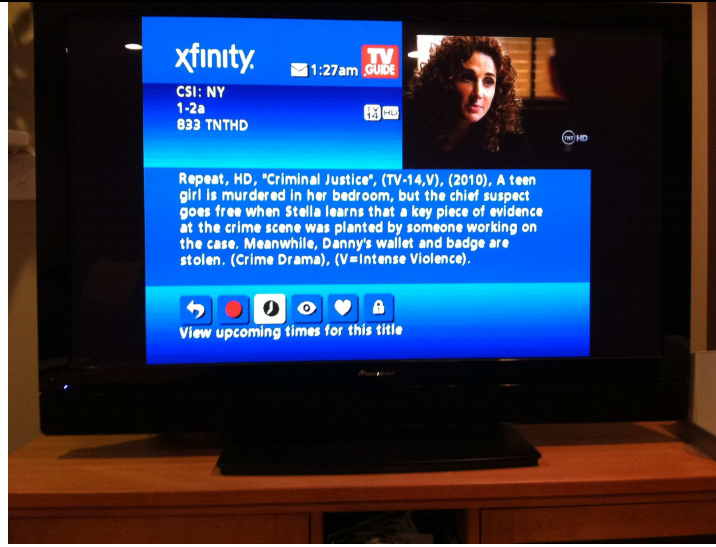
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<p>information related to an audio-visual program viewed on said A/V display;</p>	<p>Terminal] at 13-26 (illustrating video connection options).</p> <ul style="list-style-type: none"> <li>By way of one example, the DCT3412 includes hardware and software that can display an interface on a TV screen. <i>See, e.g., Ex. B-1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 6 (describing “Interactive Program Guide”); <i>id.</i> at 12 (“The DCT3400 can generate on-screen graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The cable terminal overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.”). <i>See also Ex. B-3</i> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing interface displayed on TV screen); <i>id.</i> at 7 (same); <b>Ex. B-4</b> [Comcast Digital Cable Guide] at 6, 8, 11-12; 23-24.</li> </ul> <div> <p>The image shows a Comcast DVR interface on a TV screen. At the top left, the Comcast logo is visible. To its right, there's a 'TV' icon and a signal strength indicator. Below this, there's a 'Favorite' section with a '7:30' time slot and a 'Tonight: Fall Forward' program. A video preview window on the right shows a close-up of a dog's face. The main part of the screen is a program grid with columns for 'Today', '7:30', '7:30', and '8:30'. The grid contains several program tiles with different background colors: a yellow tile for 'Biography', a green tile for 'Locally 1000 AM', and a purple tile for 'New! Connections with G...'. At the bottom, there's a red banner with a warning icon and text: 'Take charge of your TV viewing with HD-Ready DVR'. A 'Next Step' button is also visible.</p> </div> <p><b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (example of interface displayed on TV screen)</p>



**Ex. B-3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (same)

The interface of the '509 Accused Products includes selectively displayed multiple levels of information related to an audio-visual program viewed on an A/V display.

- By way of one example, the DCT3412 selectively displays multiple level of information related to a TV program on the TV display. For example, the DCT3412 allows a user to view a summary of a particular program and, by selecting the appropriate icon and pressing the appropriate buttons, also view upcoming times for that particular program. See, e.g., **Ex. B-4** [Comcast Digital Cable Guide] at 12 .



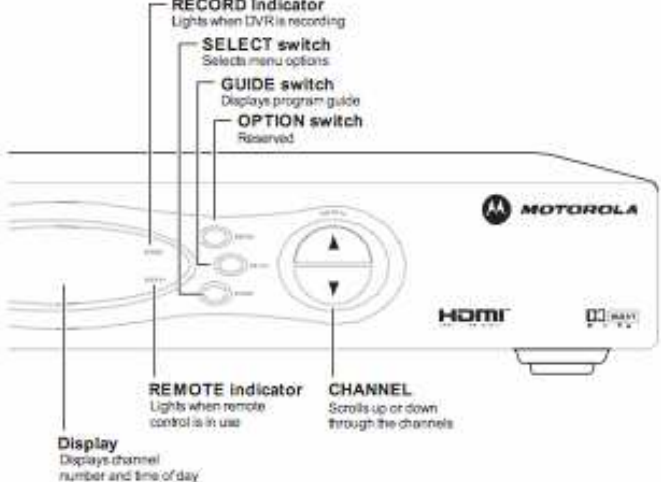
(Screenshot of DCT3412 program guide with Comcast cable service)



(Screenshot of DCT3412 program guide with Comcast cable service)

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<p>control means in communication with said transceiver for permitting a user viewing said A/V display to selectively display said multiple levels of information on said A/V display</p>	<p>A control means is in communication with the transceiver of the '509 Accused Products for permitting a user viewing the A/V display to selectively display multiple levels of information on the A/V display.</p> <ul style="list-style-type: none"> <li>• By way of one example, users may use a remote control with the DCT3412 to selectively display multiple levels of information about an A/V program on a TV screen. <i>See, e.g., Ex. B-3</i> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 2 (illustrating remote control for use with DCT3412); <b>Ex. B-4</b> [Comcast Digital Cable Guide] at 5 (same).</li> <li>• By way of another example, users may use the control panel of the DCT3412 to selectively display multiple levels of information about an A/V program on a TV screen. <i>See, e.g., Ex. B-1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4-5.</li> </ul> <div> </div> <p><b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4.</p>



<p><b>U.S. Patent No. 5,594,509</b></p>	<p style="text-align: center;"><b>Infringement Contentions</b></p> <div style="text-align: center;">  <p>The diagram shows a Motorola DVR Cable Terminal with several labeled components: <ul style="list-style-type: none"> <li><b>RECORD indicator</b>: Lights when DVR is recording.</li> <li><b>SELECT switch</b>: Selects menu options.</li> <li><b>GUIDE switch</b>: Displays program guide.</li> <li><b>OPTION switch</b>: Reserved.</li> <li><b>Display</b>: Displays channel number and time of day.</li> <li><b>REMOTE indicator</b>: Lights when remote control is in use.</li> <li><b>CHANNEL</b>: Scrolls up or down through the channels.</li> </ul> </p> <p style="text-align: center;"><b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 5.</p> </div>
<p>wherein said interface generation means further includes listing means for causing said A/V display to selectively display a program listing that contains listing information related to A/V programs viewable on said A/V display:</p>	<p>The '509 Accused Products include an interface generation means that further includes a listing means for causing an A/V display to selectively display a program listing related to A/V programs viewable on an A/V display.</p> <ul style="list-style-type: none"> <li>By way of one example, the DCT3412 includes hardware and software that causes an A/V display, such as a TV screen, to selectively display program listing for TV content or DVR content. <i>See, e.g., Ex. B-1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 6 (describing “Interactive Program Guide”); <i>id.</i> at 12 (“The DCT3400 can generate on-screen graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The cable terminal overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.”); <b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (selecting an item to selectively display content about that item); <i>id.</i> at 7 (same); <b>Ex. B-4</b> [Comcast Digital Cable Guide] at 6, 8, 11-12; 23-24 (same).</li> </ul>





Ex. B-3 [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (selectively displaying TV content)







Ex. B-3 [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (selectively displaying DVR content)

The displayed program listing of the '509 Accused Products includes information related to A/V programs viewable on an A/V display.



- By way of one example, the displayed program listing of the DCT3412 includes information related to A/V programs viewable on the TV screen. As an example, the displayed program listing can indicate the title and broadcast time of TV programs



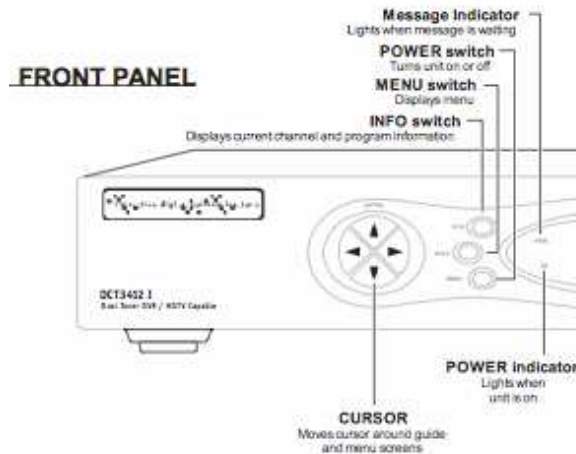
U.S. Patent No. 5,594,509	Infringement Contentions
<p>generation means includes marking means for marking programs on said program listing, each of said programs on said program listing corresponding to one of said audio-visual signals;</p>	<p>marking programs on a program listing.</p> <ul style="list-style-type: none"> <li>By way of one example, the interface generation means of the DCT3412 includes marking means to set reminders of a show displayed in the TV listings. <i>See, e.g., Ex. B-4</i> [Comcast Digital Cable Guide] at 12 (explaining how to set reminders for TV programs from the TV listings).</li> </ul> <div> </div> <p><i>See, e.g., Ex. B-4</i> [Comcast Digital Cable Guide] at 17</p> <p>Each of the programs on the program listing of the '509 Accused Products corresponds to one of the audio-visual signals.</p> <ul style="list-style-type: none"> <li>By way of one example, each program listing corresponds to a program of a television content provider (an audio-visual signal).</li> </ul>
<p>wherein said marking means is activated by said user choosing a selected program from said program listing, using up and down buttons on said control means and then activating a mark button on said control means;</p>	<p>The marking means of the '509 Accused Products is activated by the user selecting a program from the program listing using the up and down buttons on the control means, and then activating a mark on the control means.</p> <ul style="list-style-type: none"> <li>By way of one example, the marking means of the DCT3412 is activated by a user choosing a program from the TV listings using the up and down buttons of the control means, such as the remote control or the front control panel of the DCT3412. By way of further example, the user activates the reminder means by pressing a button on the control means.</li> </ul>

3. Press the Page   buttons on your remote to view TV channels a page at a time. Use the   buttons to navigate through the listings.

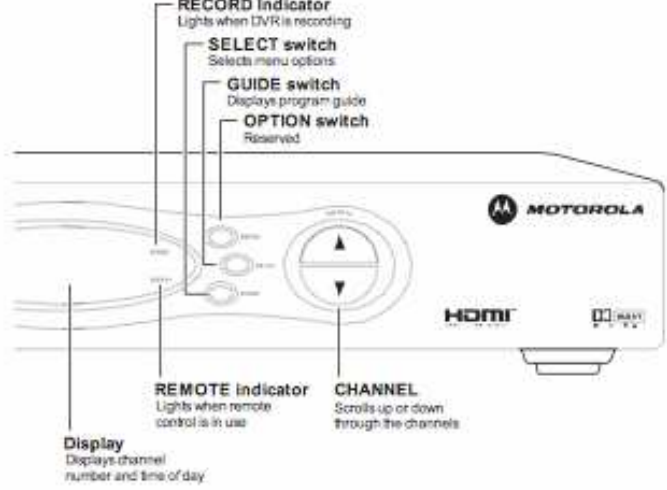
**Ex. B-4** [Comcast Digital Cable Guide] at 11 (explaining how to choose a program in the TV listings using directional arrow buttons on the remote control)

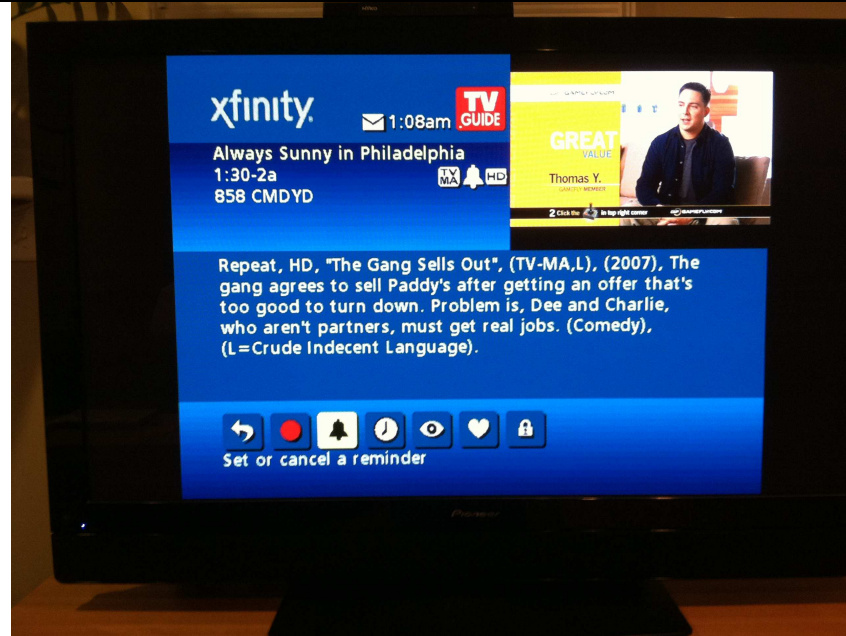
- Highlight a program in TV Listings. Press the  button to view the Program Information screen. Select the Remind  icon and follow the prompts to set or cancel a reminder.

**Ex. B-4** [Comcast Digital Cable Guide] at 12 (explaining the buttons needed to set a reminder)



**Ex. B-1** [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4.

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	 <p>The diagram shows a Motorola DVR Cable Terminal with the following labeled components:</p> <ul style="list-style-type: none"> <li><b>RECORD indicator</b>: Lights when DVR is recording</li> <li><b>SELECT switch</b>: Selects menu options</li> <li><b>GUIDE switch</b>: Displays program guide</li> <li><b>OPTION switch</b>: Reserved</li> <li><b>Display</b>: Displays channel number and time of day</li> <li><b>REMOTE indicator</b>: Lights when remote control is in use</li> <li><b>CHANNEL</b>: Scrolls up or down through the channels</li> </ul> <p><b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 5.</p>
<p>wherein when said user activates said mark button on said control means, said listing means causes said A/V display to display a reminder mark adjacent to said marked program</p>	<p>Upon activating the mark button on the control means, the listing means of the '509 Accused Products displays a reminder mark adjacent to the selected audio-visual program on the A/V display.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 can display a reminder icon in the shape of a bell next to the selected audio-visual program on the A/V display.</li> </ul>

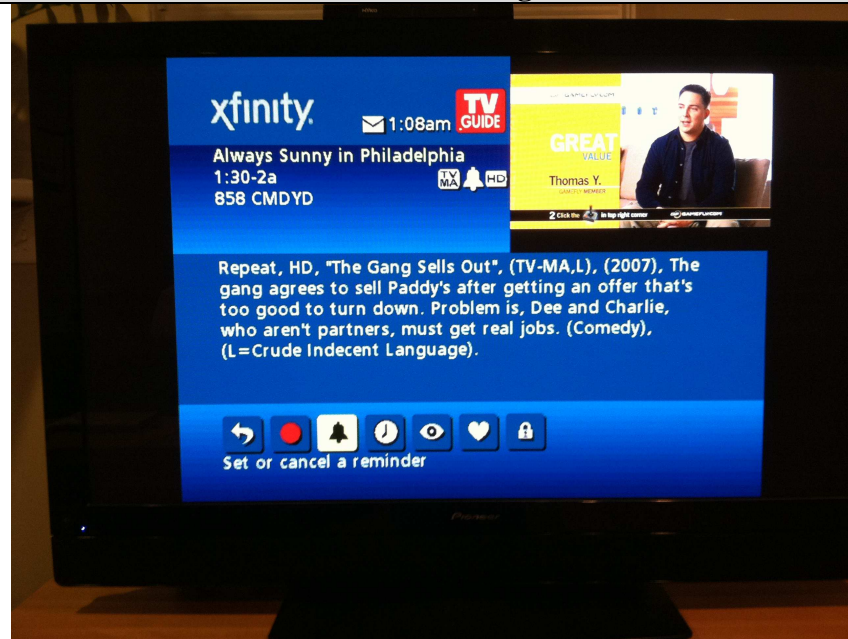


(Screenshot of DCT3412 program guide with Comcast cable service)

wherein said interface generation means causes said A/V display to display a reminder indication on a date and at a time based on the date and time that said selected program is carried over the audio-visual signal that corresponds to said marked program.

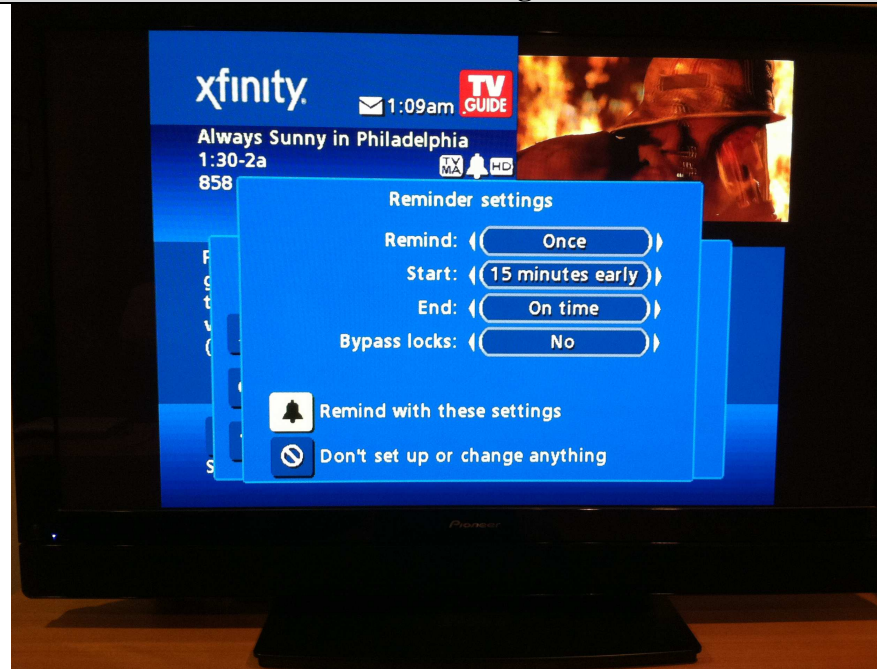
The interface means of the '509 Accused Products displays a reminder indication on a date and time based on the date and time that the selected program is carried over the audio-visual signal that corresponds to said marked program.

- By way of one example, after setting a reminder for a program, a reminder icon is displayed a certain amount of minutes before the date and time that the program is received by the DCT3412.





(Screenshot of DCT3412 program guide with Comcast cable service)





(Screenshot of DCT3412 program guide with Comcast cable service)

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	 <p>(Screenshot of DCT3412 program guide with Comcast cable service)</p>	
<p>27. The audio-visual system as defined by claim 26 wherein said interface generation means causes said A/V display to display a reminder icon at a predefined location on said A/V display on the date and at the time that said selected program is carried by one of said audio-visual signals.</p>	<p>The interface generation means of the '509 Accused Products causes the display of a reminder icon at the bottom half of the screen on the date and time that the selected program is carried over the audio-visual signal that corresponds to said marked program.</p> <ul style="list-style-type: none"> <li>• By way of one example, after setting a reminder for a program, a reminder icon is displayed at the bottom half of the screen on the date and time that the program is received by the DCT3412.</li> </ul>	

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<p>43. A method for generating and displaying an interface on an audio-visual (A/V) system comprising the steps of:</p>		
<p>receiving audio-visual (A/V) signals in an electronic signal spectrum from a signal source using a transceiver coupled to an A/V display, said</p>	<p>The '509 Accused Products include a transceiver coupled to an A/V display for receiving A/V signals in an electronic signal spectrum from a signal source, said transceiver including interface generation means for causing the display of an interface on said A/V display.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 is a cable TV terminal or set-top box that includes a transceiver and receives cable audio and video content, video-on-demand</li> </ul>	

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<p>transceiver including interface generation means for causing said A/V display to display an interface, said interface including selectively displayed multiple levels of information related to an audio-visual program viewed on said A/V display;</p>	<p>content, and other information from a cable service provider, such as Comcast, for display on the TV. See, e.g., <b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 3 (“The DCT3400 enables a direct digital connection to consumer audio and video devices through IEEE-1394 DTV and HDMI interfaces.”); <b>Ex. B-2</b> [Motorola DCT3400 Specification Sheet]. See generally <b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 13-26 (illustrating video connection options).</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 includes hardware and software that can display an interface on a TV screen. See, e.g., <b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 6 (describing “Interactive Program Guide”); <i>id.</i> at 12 (“The DCT3400 can generate on-screen graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The cable terminal overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.”). See also <b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing interface displayed on TV screen); <i>id.</i> at 7 (same); <b>Ex. B-4</b> [Comcast Digital Cable Guide] at 6, 8, 11-12; 23-24.</li> </ul> <div> <p>The image shows a Comcast DVR interface on a television screen. At the top, the Comcast logo is visible on the left, and a red 'TV' icon is on the right. Below the logo, there's a section for 'Biography' with a yellow background, and 'Family Favorites' with a green background. A 'TV' icon is also present in the top right corner. The interface displays a grid of program options with various icons and text. At the bottom, there's a red banner with a person icon and text that reads 'Take Charge of your TV viewing and recording options'.</p> </div> <p><b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (example of interface displayed on TV screen)</p>



**Ex. B-3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (same)

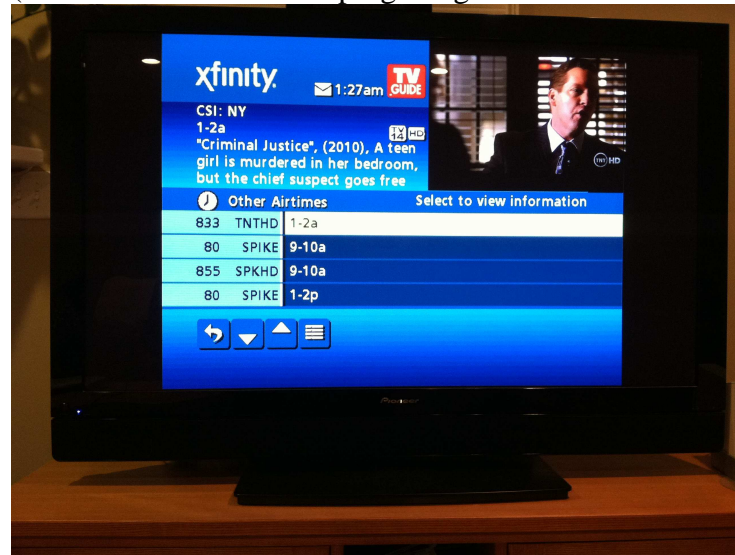
The interface of the '509 Accused Products includes selectively displayed multiple levels of information related to an audio-visual program viewed on an A/V display.

- By way of one example, the DCT3412 selectively displays multiple level of information related to a TV program on the TV display. For example, the DCT3412 allows a user to view a summary of a particular program and, by selecting the appropriate icon and pressing the appropriate buttons, also view upcoming times for that particular program. See, e.g., **Ex. B-4** [Comcast Digital Cable Guide] at 12.





(Screenshot of DCT3412 program guide with Comcast cable service)



(Screenshot of DCT3412 program guide with Comcast cable service)

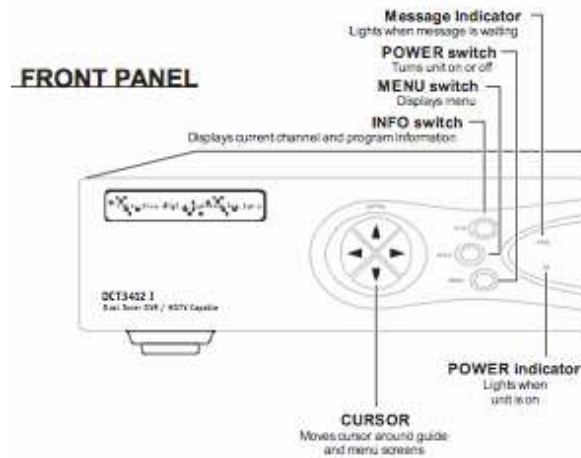
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a user selectively displaying said multiple levels of information on said A/V display using control means in communication with said transceiver;

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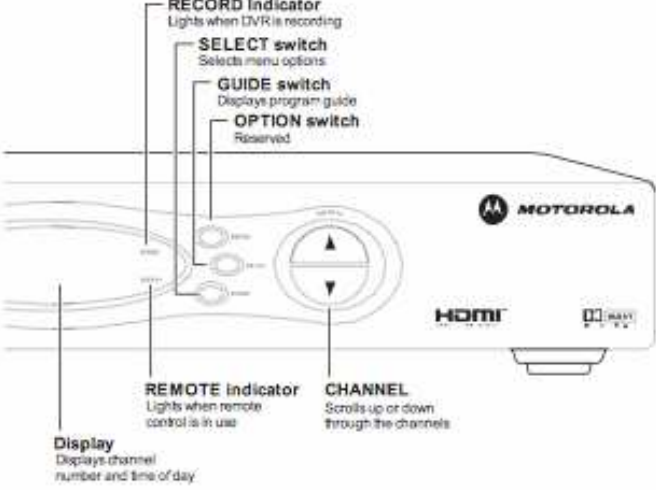
A user uses a control means that is in communication with the transceiver of the '509 Accused Products to selectively display multiple levels of information on the A/V display.

- By way of one example, users may use a remote control with the DCT3412 to selectively display multiple levels of information about an A/V program on a TV screen. See, e.g., **Ex. B-3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 2 (illustrating remote control for use with DCT3412); **Ex. B-4** [Comcast Digital Cable Guide] at 5 (same).
- By way of another example, users may use the control panel of the DCT3412 to selectively display multiple levels of information about an A/V program on a TV screen. See, e.g., **Ex. B-1** [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4-5.



**Ex. B-1** [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4.



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	 <p><b>RECORD Indicator</b> Lights when DVR is recording</p> <p><b>SELECT switch</b> Selects menu options</p> <p><b>GUIDE switch</b> Displays program guide</p> <p><b>OPTION switch</b> Reserved</p> <p><b>Display</b> Displays channel number and time of day</p> <p><b>REMOTE indicator</b> Lights when remote control is in use</p> <p><b>CHANNEL</b> Scrolls up or down through the channels</p> <p><b>MOTOROLA</b></p> <p><b>HDMI</b></p> <p><b>RAY</b></p> <p><b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 5.</p>
<p>wherein said transceiver further includes:</p> <p>a switcher and</p> <p>at least one tuner/demodulator coupled to said signal source, said switcher coupling said at least one tuner/demodulator, said A/V display, and a storage means, for switching digital and analog A/V data between said signal source, said A/V display and said storage means,</p>	<p>The transceiver of the '509 Accused Products includes at least a switcher and at least one tuner/demodulator coupled to the signal source, wherein the switcher is coupled to at least one tuner/demodulator, the A/V display, and a storage means, and switches digital and analog A/V data between the signal source, the A/V display, and the storage means.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 is a cable TV terminal or set-top box that includes a transceiver and receives cable audio and video content, video-on-demand content, and other information from a cable service provider, such as Comcast, for display on the TV. The DCT3412 also includes a storage means by way of its DVR functionality. By way of one example, upon information and belief, the DCT3412 includes a switcher and a tuner/demodulator coupled to the signal source for receiving content from the cable service provider. By way of one further example, upon information and belief, the DCT3412 includes a switcher that couples the tuner/demodulator with the TV display, a storage means such as that of the DVR. See generally <b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable</li> </ul>

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<p>said transceiver further comprising at least one processor unit, at least one system memory unit, at least one data bus, an A/V decoder, an A/V encoder, a control interface unit, and a bus controller cooperatively coupled together for receiving input control and data signals and in response generating output control and data signals for said signal source, said A/V display, and said storage means.</p>	<p>Terminal].</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 is able to record and store A/V programs on a storage means. See, e.g., <b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 7 (describing DVR functionality of the DCT3412).</li> <li>• By way of one example, upon information and belief, the DCT3412 includes hardware and software that allows the DVR of the DCT3412 to record content that is digital or analog. See, e.g., <b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 7 (describing DVR functionality of the DCT3412).</li> </ul> <p>The transceiver of the '509 Accused Products includes at least one processor unit, at least one system memory unit, at least one data bus, an A/V decoder, an A/V encoder, a control interface unit, and a bus controller cooperatively coupled together for receiving input control and data signals and in response generating output control and data signals for said signal source, said A/V display, and said storage means.</p> <ul style="list-style-type: none"> <li>• By way of one example, upon information and belief, the DCT3412 is a cable TV terminal or set-top box that includes a transceiver with at least one processor unit. See generally <b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal].</li> <li>• By way of one example, upon information and belief, the DCT3412 is a cable TV terminal or set-top box that includes a transceiver with at least one system memory unit. See generally <b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal].</li> <li>• By way of one example, the DCT3412 is a cable TV terminal or set-top box that includes a transceiver and receives cable audio and video content, video-on-demand content, and other information from a cable service provider, such as Comcast, for</li> </ul>

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	<p>display on the TV. By way of one further example, the DCT3412 also has storage means by way of its DVR functions. Upon information and belief, the transceiver includes a bus controller cooperatively coupled together for receiving input control and data signals and in response generating output control and data signals for the signal source, the A/V display (such as the TV display), and the storage means (such as the DVR storage). See generally <b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal].</p>
<p>44. The method as defined by claim 43 wherein said electronic signal spectrum includes at least one digital program listing channel, and further including the step of downloading program listing data from said signal source to said system memory.</p>	<p>The '509 Accused Products obtains data signals from an electronic signal spectrum that includes at least one digital program listing channel for downloading program listing data from the signal source to the system memory.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 is a cable TV terminal or set-top box that includes a transceiver and receives cable audio and video content, video-on-demand content, and other information from a cable service provider, such as Comcast, for display on the TV. Upon information and belief, the cable service provider provides at least one digital program listing channel for downloading program listing data to the system memory of the DCT3412. See generally <b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal].</li> </ul>
<p>46. The method as defined by claim 44 wherein said program listing data includes program title data.</p>	<p>The program listing data of the '509 Accused Products includes program title data.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 provides program listing data that includes program title data.</li> </ul>



(Screenshot of DCT3412 program guide with Comcast cable service)

47. The method as defined by claim 44 wherein said program listing data includes show time data and channel number data.

The program listing data of the '509 Accused Products includes show time data and channel number data.

- By way of one example, the DCT3412 provides program listing data that includes show time data and channel number data.











(Screenshot of DCT3412 program guide with Comcast cable service)

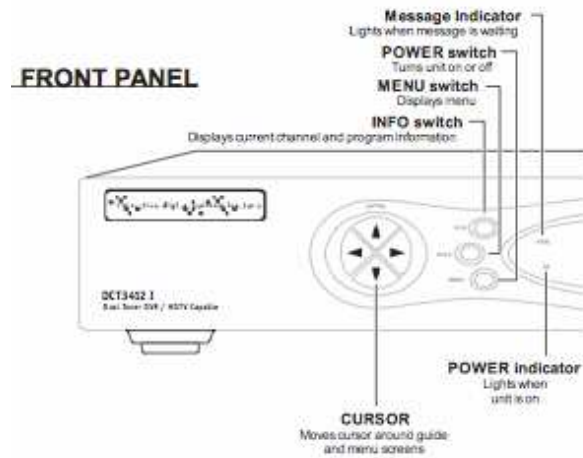
49. The method as defined by claim 43 further wherein said interface generation means includes marking means for marking A/V programs in a program listing.

The interface generation means of the '509 Accused Products includes a marking means for marking programs on a program listing.

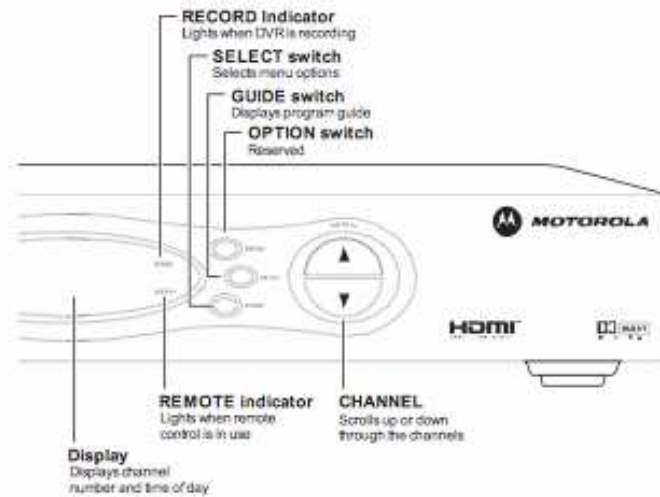
- By way of one example, the interface generation means of the DCT3412 includes marking means to set reminders of a show displayed in the TV listings. See, e.g., **Ex. B-4** [Comcast Digital Cable Guide] at 12 (explaining how to set reminders for TV programs from the TV listings).

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	<div style="background-color: #f4a460; padding: 10px; border: 1px solid black;"> <p><b>Set Reminders</b>  .....</p> <p>While in TV Listings, highlight the show you want to set a reminder for, press the  button and then select the  icon.</p> </div> <p>See, e.g., <b>Ex. B-4</b> [Comcast Digital Cable Guide] at 17</p>
<p>50. The method as defined by claim 49 wherein said marking means is activated by said user choosing a selected A/V program from said program listing using up and down buttons and then activating a mark button on said control means.</p>	<p>The marking means of the '509 Accused Products is activated by the user selecting a program from the program listing using the up and down buttons on the control means, and then activating a mark on the control means.</p> <ul style="list-style-type: none"> <li>• By way of one example, the marking means of the DCT3412 is activated by a user choosing a program from the TV listings using the up and down buttons of the control means, such as the remote control or the front control panel of the DCT3412, and then pressing a button on the control means to mark a program for a reminder.</li> </ul> <p>3. Press the Page   buttons on your remote to view TV channels a page at a time. Use the   buttons to navigate through the listings.</p> <p><b>Ex. B-4</b> [Comcast Digital Cable Guide] at 11 (explaining how to choose a program in the TV listings using directional arrow buttons on the remote control)</p> <ul style="list-style-type: none"> <li>• Highlight a program in TV Listings. Press the  button to view the Program Information screen. Select the Remind  icon and follow the prompts to set or cancel a reminder.</li> </ul> <p><b>Ex. B-4</b> [Comcast Digital Cable Guide] at 12 (explaining the buttons needed to set a</p>

reminder)

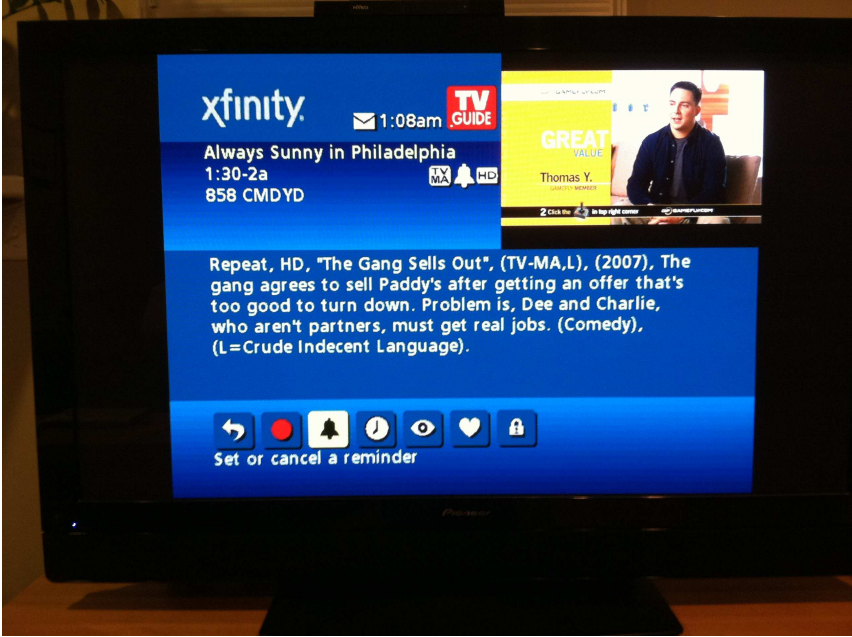



Ex. B-1 [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4.



Ex. B-1 [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 5.



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<p>51. The method as defined by claim 43 wherein when said user activates a mark button on said control means, a listing means causes said A/V display to display a reminder mark adjacent to a selected program in a program listing.</p>	<p>Upon activating the mark button on the control means, the listing means of the '509 Accused Products displays a reminder mark adjacent to the selected audio-visual program on the A/V display.</p> <ul style="list-style-type: none"> <li>By way of one example, the DCT3412 can display a reminder icon in the shape of a bell next to the selected audio-visual program on the A/V display.</li> </ul>  <p>(Screenshot of DCT3412 program guide with Comcast cable service)</p>
<p>52. The method as defined by claim 51 wherein said interface generation means causes said A/V display to display a reminder icon at a</p>	<p>The interface generation means of the '509 Accused Products causes the display of a reminder icon at the bottom half of the screen on the date and time that the selected program is carried over the audio-visual signal that corresponds to said marked program.</p> <ul style="list-style-type: none"> <li>By way of one example, after setting a reminder for a program, a reminder icon is displayed at the bottom half of the screen on the date and time that the program is</li> </ul>


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<p>predefined location on said A/V display on the date and at the time that said selected program is carried on one of said audio-visual signals.</p>	<p>received by the DCT3412.</p>  <p>(Screenshot of DCT3412 program guide with Comcast cable service)</p>
<p>54. The method as defined by claim 43 wherein said transceiver further includes listing means for causing said A/V display to selectively display listing information related to A/V programs viewable on said A/V display.</p>	<p>The '509 Accused Products include a listing means for causing an A/V display to selectively display a program listing related to A/V programs viewable on an A/V display.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 includes hardware and software that causes an A/V display, such as a TV screen, to selectively display program listing for TV content or DVR content. See, e.g., <b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 6 (describing “Interactive Program Guide”); id. at 12 (“The DCT3400 can generate on-screen graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User</li> </ul>


Setting menu), closed captions, and interactive program guides. The cable terminal overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.”); **Ex. B-3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (selecting an item to selectively display content about that item); *id.* at 7 (same); **Ex. B-4** [Comcast Digital Cable Guide] at 6, 8, 11-12; 23-24 (same).



**Ex. B-3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (selectively displaying TV content)



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	<p><b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (selectively displaying DVR content)</p> <p>The displayed program listing of the '509 Accused Products includes information related to A/V programs viewable on an A/V display.</p> <ul style="list-style-type: none"> <li>• By way of one example, the displayed program listing of the DCT3412 includes information related to A/V programs viewable on the TV screen. As an example, the displayed program listing can indicate the title and broadcast time of TV programs available for viewing. See, e.g., <b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (displaying listing of TV content). As another example, the displayed program listing can indicate the title and date of recording for DVR-recorded programs. See, e.g., <b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (displaying listing of DVR content).</li> </ul>  <p><b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing listing of TV content)</p>

U.S. Patent No. 5,594,509	Infringement Contentions
	 <p><b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (showing listing of DVR content)</p>
<p>55. The method as defined by claim 54 wherein the activation of said listing means results in a listing interface being displayed on said A/V display.</p>	<p>The activation of the listing means in the '509 Accused Products results in a listing interface being displayed on an A/V display.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 includes hardware and software that results in a listing interface being displayed on the A/V display. See, e.g., <b>Ex. B-1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 6 (describing “Interactive Program Guide”); <i>id.</i> at 12 (“The DCT3400 can generate on-screen graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The cable terminal overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.”); <b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (selecting an item to selectively display content about that item); <i>id.</i> at 7 (same); <b>Ex. B-4</b> [Comcast Digital Cable Guide] at 6, 8, 11-12; 23-24 (same).</li> </ul>



Ex. B-3 [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (selectively displaying TV content)



Ex. B-3 [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (selectively displaying DVR content)


56. The method as defined by claim 55 wherein said listing

The listing means in the '509 Accused Products causes the display of program listings for







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	 <p><b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (selectively displaying DVR content)</p>
<p>57. The method as defined by claim 56 wherein said listing means causes said A/V display to display a first picture-in-picture (PIP) window in which the currently viewed program viewed by said user prior to said activation of said listing means is displayed on said A/V display.</p>	<p>The listing means in the '509 Accused Products causes the A/V display to display a first picture-in-picture (PIP) window in which the currently viewed program viewed by the user prior the activation of the listing means is displayed on the A/V display.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 includes hardware and software that causes the display of the program that the user was viewing before the activation of the A/V listing means in a picture-in-picture window, as below.</li> </ul>




Ex. B-3 [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing picture-in-picture display of program that user was viewing while also displaying TV listings)



Ex. B-3 [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (showing picture-in-picture display of program that user was viewing while also displaying DVR listings)

58. The method as defined by

The listing means of the '509 Accused Products causes a program listing icon to identify to

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<p>claim 57 wherein said listing means causes said A/V display to display a program listing icon to identify to said user that said program listing has been activated.</p>	<p>the user that the listing means has been activated.</p> <ul style="list-style-type: none"> <li>By way of one example, the DCT3412 includes hardware and software to display an A/V listing icon to identify to the user that the listing means has been activated. For example, a TV Guide icon is displayed in the upper middle portion of the screen.</li> </ul>  <p><b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7</p>
<p>60. The method as defined by claim 57 wherein A/V program listings in said program listing are displayed in hourly time slots, programs of less than one hour in duration being displayed adjacent to one another separated by a half hour delineation mark.</p>	<p>The '509 Accused Products allow for the display of program listings in hourly time slots wherein programs of less than one hour in duration are displayed adjacent to one another separated by a half hour delineation mark.</p> <ul style="list-style-type: none"> <li>By way of one example, the DCT3412 allows for program listings to be displayed in hourly time slots. The DCT3412 further allows listings for programs of less than an hour to be displayed next to another program separated by a half-hour delineation mark. See, e.g., <b>Ex. B-4</b> [Comcast Digital Cable Guide] at 11 (screen shot of program listing being displayed in hourly time slots with half-hour delineation marks).</li> </ul>

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**Infringement Contentions**







**Ex. B-4** [Comcast Digital Cable Guide] at 11





61. The method as defined by claim 57 wherein upon activation of said listing means, the listing for the currently viewed program displayed in said first PIP window is highlighted.

The '509 Accused Products provide that, upon the activation of the listing means, a listing for the currently viewed audio-visual program displayed in the PIP window is highlighted.

- By way of one example, upon entering the display of TV listings, the DCT3412 allows for listing information of the program being displayed in the picture-in-picture window to be highlighted, as below.



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	<p><b>Ex. B-3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (highlighting program being viewed in the picture-in-picture window)</p>
<p>62. The method as defined by claim 61 wherein said program listing is selectively scrolled up and down by said user to view additional program listings for said current date and time by continuing to depress, respectively, said up and down buttons on said [remote] control means.</p>	<p>The '509 Accused Products allow for users to scroll up and down to display additional program listings for the current date and time by continuing to depress the up or down buttons on the remote control.</p> <ul style="list-style-type: none"> <li>By way of one example, the DCT3412 allows users to scroll through program listings to view additional listings for the current date and time by pressing the up or down buttons of the remote control.</li> </ul> <p style="padding-left: 40px;">3. Press the Page   buttons on your remote to view TV channels a page at a time. Use the   buttons to navigate through the listings.</p> <p><b>Ex. B-4</b> [Comcast Digital Cable Guide] at 11 (explaining how to choose a program in the TV listings using directional arrow buttons on the remote control)</p>
<p>63. The method as defined by claim 61 wherein depressing said up and down buttons selects a particular program listing, said particular program listing being thereby highlighted on said A/V display.</p>	<p>The '509 Accused Products allow for program listings to be selected by using up or down buttons on a remote control with the currently selected listed being highlighted on the A/V display.</p> <ul style="list-style-type: none"> <li>By way of one example, the DCT3412 allows for program listings to be selected by the up or down buttons on the remote control. <i>See, e.g., Ex. B-4</i> [Comcast Digital Cable Guide] at 11 (explaining how to choose a program in the TV listings using directional arrow buttons on the remote control). Using the remote control, the currently selected listing is highlighted. <i>See, e.g., Ex. B-4</i> [Comcast Digital Cable Guide] at 6 (“Yellow is always the highlight color in the on-screen program guide, and highlighting will always tell you where you are in the on-screen guide.”).</li> </ul>

U.S. Patent No. 5,594,509	Infringement Contentions
	<p>3. Press the Page   buttons on your remote to view TV channels a page at a time. Use the   buttons to navigate through the listings.</p> <p><b>Ex. B-4</b> [Comcast Digital Cable Guide] at 11 (explaining how to choose a program in the TV listings using directional arrow buttons on the remote control)</p>

**Exhibit C – U.S. Patent No. 5,621,456**

Motorola directly and/or indirectly infringes at least claims 1-2, 4-10 of the '456 patent, either literally or through the doctrine of equivalents. Motorola's infringing products include set-top boxes and associated hardware, including but not limited to remote control devices, that provide or operate in conjunction with an interactive user interface for managing or selecting programs or services (e.g., TV programs or DVR functions), including but not limited to the: DCT700, DCT2500, DCT3400, DCT3412, DCT3080, DCT6200, DCT6208, DCT6400, DCT6412, DCX700, DCX3200, DCX3200 P2, DCX3400, DCH70, DCH100, DCH200, DCH3200, DCH3416, DCH6200, DCH6416, DTA100, QIP2500, QIP2708, QIP6200, QIP6416, QIP7100, and QIP7216 (collectively, the "'456 Accused Products").

For purposes of this analysis, Apple will examine a representative set-top box, Motorola's DCT3412 as used with Comcast cable service. See, e.g., <http://customer.comcast.com/Pages/FAQViewer.aspx?Guid=f39b3536-8ba2-4fbd-a359-644e00cd0a5a> (Comcast Cable Box User Manuals) (last visited May 18, 2011). All other '456 Accused Products meet the limitations of the asserted claims on the same bases as indicated for the Motorola DCT3412 unless otherwise stated.

These infringement contentions are preliminary and based only on publicly available information as to the '456 Accused Products. Motorola has provided little to no discovery as to its accused products and, in addition, Apple's investigation of Motorola's infringement is ongoing. Based on discovery and Apple's continued investigations, Apple reserves the right to amend these contentions to identify additional bases for infringement and additional accused products, including products that Motorola may introduce in the future. Accordingly, Apple reserves its right to amend these contentions as discovery and its investigation proceeds. Also, these disclosures are made based on information ascertained to date, and Apple expressly reserves the right to modify or amend the disclosures contained herein based on the Court's claim constructions or to reflect additional information that becomes available to Apple.

<b>U.S. Patent No. 5,621,456</b>	<b>Infringement Contentions</b>
1. An interactive user interface and audio-visual (A/V) system, comprising:	
a transceiver coupled to an A/V display for receiving A/V signals, said transceiver	The '456 Accused Products include a transceiver coupled to an A/V display for receiving A/V signals, said transceiver including interface generation means for displaying an



U.S. Patent No. 5,621,456	Infringement Contentions
<p>including interface generation means for displaying an interface on said A/V display;</p>	<p>interface on said A/V display.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 is a cable TV terminal or set-top box that includes a transceiver and receives cable audio and video content, video-on-demand content, and other information from a cable service provider, such as Comcast, for display on the TV. <i>See, e.g., Ex. C -1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 3 (“The DCT3400 enables a direct digital connection to consumer audio and video devices through IEEE-1394 DTV and HDMI interfaces.”); <i>Ex. C -2</i> [Motorola DCT3400 Specification Sheet]. <i>See generally Ex. C -1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 13-26 (illustrating video connection options).</li> <li>• By way of one example, the DCT3412 includes hardware and software that can display an interface on a TV screen. <i>See, e.g., Ex. C -1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 6 (describing “Interactive Program Guide”); <i>id.</i> at 12 (“The DCT3400 can generate on-screen graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The cable terminal overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.”). <i>See also Ex. C -3</i> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing interface displayed on TV screen); <i>id.</i> at 7 (same); <i>Ex. C -4</i> [Comcast Digital Cable Guide] at 6, 8, 11-12; 23-24.</li> </ul>

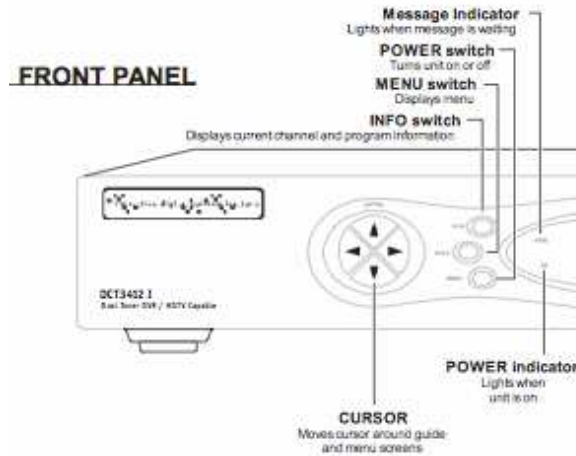
U.S. Patent No. 5,621,456	Infringement Contentions
	<div> </div> <p><b>Ex. C -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (example of interface displayed on TV screen)</p> <div> </div> <p><b>Ex. C -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (same)</p>
<p>control means in communication with said transceiver for permitting a user viewing said A/V display to display A/V programs on said A/V display;</p>	<p>A control means is in communication with the transceiver of the '456 Accused Products for permitting a user viewing the A/V display to selectively display A/V programs on the A/V display.</p> <ul style="list-style-type: none"> <li>• By way of one example, users may use a remote control with the DCT3412 to display A/V programs on a TV screen. See, e.g., <b>Ex. C -3</b> [Comcast, DVR Guide,</li> </ul>

**U.S. Patent No. 5,621,456**

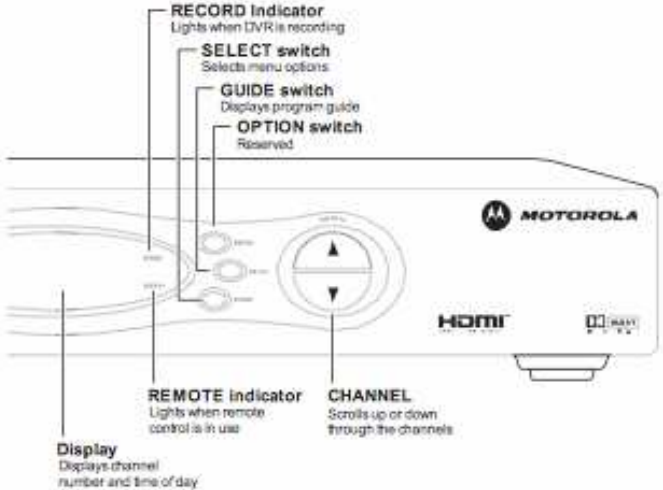
**Infringement Contentions**

Dual Tuner HD-Capable DVR] at 2 (illustrating remote control for use with DCT3412); **Ex. C -4** [Comcast Digital Cable Guide] at 5 (same).

- By way of another example, users may use the control panel of the DCT3412 to display A/V programs on a TV screen. See, e.g., **Ex. C -1** [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4-5.

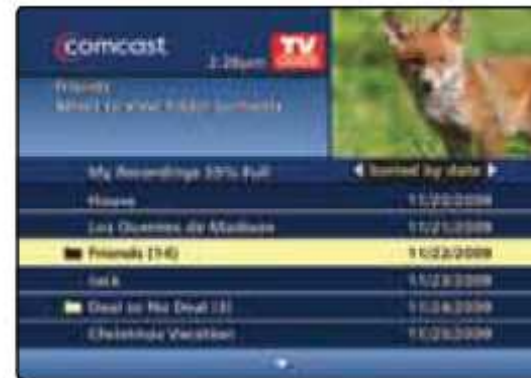


**Ex. C -1** [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4.

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	 <p><b>RECORD indicator</b> Lights when DVR is recording</p> <p><b>SELECT switch</b> Selects menu options</p> <p><b>GUIDE switch</b> Displays program guide</p> <p><b>OPTION switch</b> Reserved</p> <p><b>REMOTE indicator</b> Lights when remote control is in use</p> <p><b>CHANNEL</b> Scrolls up or down through the channels</p> <p><b>Display</b> Displays channel number and time of day</p> <p><b>Ex. C -1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 5.</p>
<p>wherein said interface generation means further includes an A/V listing interface for causing said A/V display to selectively display a program listing, said program listing including information related to A/V programs viewable on said A/V display;</p>	<p>The '456 Accused Products include an interface generation means that further includes an A/V listing interface for causing an A/V display to selectively display a program listing.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 includes hardware and software that causes an A/V display, such as a TV screen, to selectively display program listing for TV content or DVR content. See, e.g., <b>Ex. C -1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 6 (describing “Interactive Program Guide”); <i>id.</i> at 12 (“The DCT3400 can generate on-screen graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The cable terminal overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.”); <b>Ex. C -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (selecting an item to selectively display content about that item); <i>id.</i> at 7 (same); <b>Ex. C -4</b> [Comcast Digital Cable Guide] at 6, 8, 11-12; 23-24 (same).</li> </ul>



Ex. C -3 [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (selectively displaying TV content)



Ex. C -3 [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (selectively displaying DVR content)


The displayed program listing of the '456 Accused Products includes information related to A/V programs viewable on an A/V display.





- By way of one example, the displayed program listing of the DCT3412 includes information related to A/V programs viewable on the TV screen. As an example, the displayed program listing can indicate the title and broadcast time of TV programs







U.S. Patent No. 5,621,456	Infringement Contentions
	<p>available for viewing. See, e.g., <b>Ex. C -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (displaying listing of TV content). As another example, the displayed program listing can indicate the title and date of recording for DVR-recorded programs. See, e.g., <b>Ex. C -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (displaying listing of DVR content).</p> <div> </div> <p><b>Ex. C -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing listing of TV content)</p> <div> </div> <p><b>Ex. C -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (showing listing of DVR content)</p>
wherein said A/V listing	The A/V listing interface of the '456 Accused Products displays a picture in a picture (PIP) window in which the audio-visual program that was viewed by the user prior to the

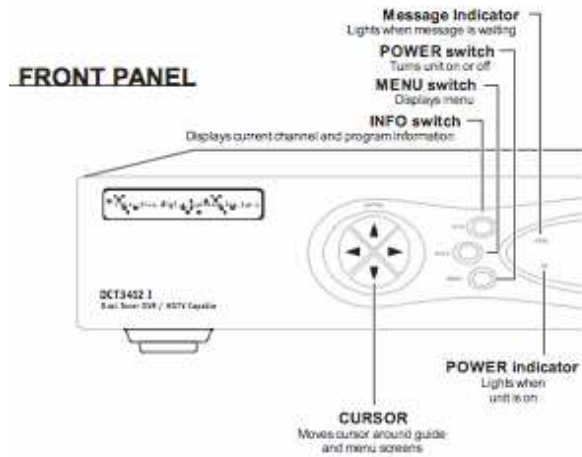
U.S. Patent No. 5,621,456	Infringement Contentions
<p>interface displays a picture in a picture (PIP) window in which the audio-visual program viewed by said user prior to said activation of said A/V listing means is displayed.</p>	<p>activation of the A/V listing means is displayed.</p> <ul style="list-style-type: none"> <li>In either case of the DVR or TV listing, the DCT3412 allows for the display of the program that the user was viewing before the activation of the A/V listing means in a picture-in-picture window, as below.</li> </ul> <div> <p>This screenshot shows the Comcast DVR Guide interface. At the top right, there is a picture-in-picture (PIP) window displaying a program featuring a dog. The main interface shows a grid of TV listings for the current day (Friday, 7:00 PM). The selected program is 'Biography'. At the bottom, there is a red banner with a warning icon and the text 'Take charge of your TV viewing with DVR and On Demand'.</p> </div> <p><b>Ex. C -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing picture-in-picture display of program that user was viewing while also displaying TV listings)</p> <div> <p>This screenshot shows the Comcast DVR Guide interface. At the top right, there is a picture-in-picture (PIP) window displaying a program featuring a dog. The main interface shows a list of recordings under the heading 'My Recordings 97% Full'. The list is sorted by date and includes the following entries: 'None' (11/20/2008), 'Last Dances of Marlene' (11/21/2008), 'Friends (74)' (11/22/2008), 'Jack' (11/23/2008), 'Dead to the Day (1)' (11/24/2008), and 'Celebrity Vacation' (11/25/2008). The 'Friends (74)' entry is highlighted in yellow.</p> </div> <p><b>Ex. C -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (showing picture-in-picture display of</p>



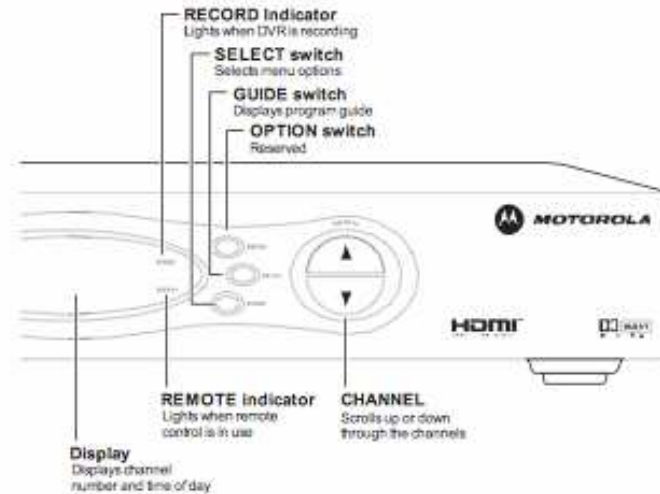
U.S. Patent No. 5,621,456	Infringement Contentions
<p>2. The audio-visual system as defined by claim 1 wherein said A/V listing interface displays an A/V listing icon to identify to said user that said listing means has been activated.</p>	<p>program that user was viewing while also displaying DVR listings)</p> <p>The A/V listing interface of the '456 Accused Products displays an A/V listing icon to identify to the user that the listing means has been activated.</p> <ul style="list-style-type: none"> <li>By way of one example, the DCT3412 includes hardware and software to display an A/V listing icon to identify to the user that the listing means has been activated. For example, a TV Guide icon is displayed in the upper middle portion of the screen:</li> </ul>  <p>The screenshot shows a Comcast DVR Guide interface. At the top left is the Comcast logo. To its right is a red 'TV' icon. Below the Comcast logo, there is a 'Friends' listing with a small icon. The main part of the screen is a list of programs: 'My Recordings 80% Full', 'Home', 'Last Queued Up Available', 'Friends (14)', 'iCar', 'Deal or No Deal (3)', and 'Challenge Variation'. The 'Friends (14)' listing is highlighted in yellow. A small icon is visible in the upper middle portion of the screen, corresponding to the TV Guide icon mentioned in the text.</p> <p>Ex. C -3 [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7</p>
<p>4. The audio-visual system as defined by claim 1 wherein upon said activation of said A/V listing means the listing for the audio-visual program displayed in said PIP window is highlighted.</p>	<p>The '456 Accused Products provide that, upon the activation of the A/V listing means, a listing for the audio-visual program displayed in the PIP window is highlighted.</p> <ul style="list-style-type: none"> <li>By way of one example, upon entering the display of TV listings, the DCT3412 allows for listing information of the program being displayed in the picture-in-picture window to be highlighted, as below.</li> </ul>

U.S. Patent No. 5,621,456	Infringement Contentions
	<div> </div> <p><b>Ex. C -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (highlighting program being viewed in the picture-in-picture window)</p>
<p>5. The audio-visual system as defined by claim 1 wherein said A/V listings may be scrolled by said user to view additional listings for said current date and time by continuing to depress up or down buttons on said control means.</p>	<p>The '456 Accused Products allow for users to scroll through A/V listings to view additional listings for the current date and time by continuing to depress up or down buttons on a control means.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 allows users to scroll through A/V listings to view additional listings for the current date and time by pressing the up or down buttons of the control means, such as the remote control or the control panel of the DCT3412. Specifically, for the TV listing, the user may press the up button to view lower program channel listings and press down to view higher program channel listings. The program listings are for the current date and time during this navigation (left and right changes the time frame).</li> </ul> <p>3. Press the Page   buttons on your remote to view TV channels a page at a time. Use the   buttons to navigate through the listings.</p> <p><b>Ex. C -4</b> [Comcast Digital Cable Guide] at 11 (explaining how to choose a program in the TV listings using directional arrow buttons on the remote control)</p>

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	<div> </div> <p><b>Ex. C -1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4.</p>
<p>6. The audio-visual system as defined by claim 5 wherein an A/V listing may be selected by using said up or down buttons on said control means, said currently selected listing being highlighted.</p>	<p>The '456 Accused Products allow for A/V listings to be selected by using up or down buttons on a control means with the currently selected listed being highlighted.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 allows for A/V listings to be selected by the up or down buttons on the control means, such as the remote control or the control panel of the DCT3412. <i>See. e.g., Ex. C -4</i> [Comcast Digital Cable Guide] at 11 (explaining how to choose a program in the TV listings using directional arrow buttons on the remote control).</li> </ul> <p>3. Press the Page   buttons on your remote to view TV channels a page at a time. Use the     buttons to navigate through the listings.</p> <p><b>Ex. C -4</b> [Comcast Digital Cable Guide] at 11 (explaining how to choose a program in the TV listings using directional arrow buttons on the remote control)</p>



Ex. C -1 [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4.



Ex. C -1 [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 5.

- Using either the remote control or the control panel of the DCT3412, the currently selected listing is highlighted. See, e.g., Ex. C -4 [Comcast Digital Cable Guide] at 6 (“Yellow is always the highlight color in the on-screen program guide, and highlighting

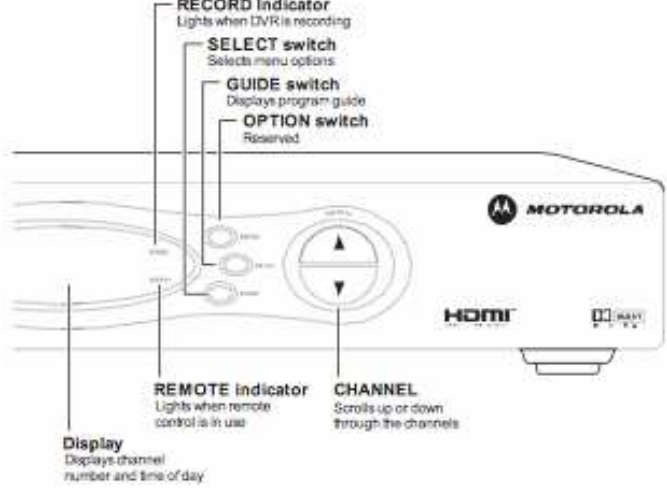
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	will always tell you where you are in the on-screen guide.”).
<p>7. The audio-visual system as defined by claim 1 wherein said A/V listings are displayed in hourly time slots, audio-visual programs of less than one hour in duration being displayed adjacent to one another separated by a half hour delineation mark.</p>	<p>The '456 Accused Products allow for the display of A/V listings in hourly time slots wherein audio-visual programs of less than one hour in duration are displayed adjacent to one another separated by a half hour delineation mark.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 allows for A/V listings to be displayed in hourly time slots. The DCT3412 further allows listings for audio-visual programs of less than an hour to be displayed next to another audio-visual program separated by a half-hour delineation mark. See, e.g., <b>Ex. C -4</b> [Comcast Digital Cable Guide] at 11 (screen shot of program listing being displayed in hourly time slots with half-hour delineation marks).</li> </ul> <div> </div> <p style="text-align: right;"><i>See, e.g., Ex. C -4</i> [Comcast Digital Cable Guide] at 11</p>
<p>8. An interactive user interface and audio-visual (A/V) system, comprising:</p>	<p>The '456 Accused Products, such as the DCT3412, offer an interactive user interface, as explained below:</p>
<p>a transceiver coupled to an A/V display for receiving A/V</p>	<p>The '560 Accused Products include a transceiver coupled to an A/V display for receiving A/V signals, said transceiver including interface generation means for displaying an</p>

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<p>signals, said transceiver including interface generation means for displaying an interface on said A/V display;</p>	<p>interface on said A/V display.</p> <ul style="list-style-type: none"> <li>• By way of one example, the DCT3412 includes a transceiver coupled to a TV for receiving A/V signals. The DCT3412 is a cable TV terminal or set-top box that includes a transceiver and receives cable audio and video content, video-on-demand content, and other information from a cable service provider, such as Comcast, for display on the TV. <i>See, e.g., Ex. C -1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 3 (“The DCT3400 enables a direct digital connection to consumer audio and video devices through IEEE-1394 DTV and HDMI interfaces.”); <i>Ex. C -2</i> [Motorola DCT3400 Specification Sheet]. <i>See generally Ex. C -1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 13-26 (illustrating video connection options).</li> <li>• By way of one example, the DCT3412 includes hardware and software that can display an interface on a TV screen. <i>See, e.g., Ex. C -1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 6 (describing “Interactive Program Guide”); <i>id.</i> at 12 (“The DCT3400 can generate on-screen graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The cable terminal overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.”). <i>See also Ex. C -3</i> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing interface displayed on TV screen); <i>id.</i> at 7 (same); <i>Ex. C -4</i> [Comcast Digital Cable Guide] at 6, 8, 11-12; 23-24.</li> </ul>

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	<div> <p>This screenshot shows the Comcast DVR Guide interface. At the top, it displays the Comcast logo, the time '2:50pm', and a 'TV' icon. Below this, there's a section for 'Programs' with a '7:00' time slot. A grid of program listings follows, with 'Biography' highlighted in yellow. At the bottom, there's a red banner that says 'Take charge of your TV viewing with HD-Ready DVR.' and a 'Comcast' logo.</p> </div> <p><b>Ex. C -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (example of interface displayed on TV screen)</p> <div> <p>This screenshot shows the Comcast DVR Guide interface with a list of recordings. At the top, it displays the Comcast logo, the time '2:50pm', and a 'TV' icon. Below this, there's a section for 'My Recordings 97% Full' with a 'Sorted by date' dropdown. A list of recordings follows, with 'Friends (TV)' highlighted in yellow. The list includes titles like 'Hawaii', 'Last Days in the Mediterranean', 'Friends (TV)', 'Jack', 'Deal or No Deal (I)', and 'Celebrity Vacation' with corresponding dates.</p> </div> <p><b>Ex. C -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (same)</p>
<p>control means in communication with said transceiver for permitting a user viewing said A/V display to display A/V programs on</p>	<p>A control means is in communication with the transceiver of the '456 Accused Products for permitting a user viewing the A/V display to selectively display A/V programs on the A/V display.</p> <ul style="list-style-type: none"> <li>• By way of one example, users may use a remote control with the DCT3412 to</li> </ul>



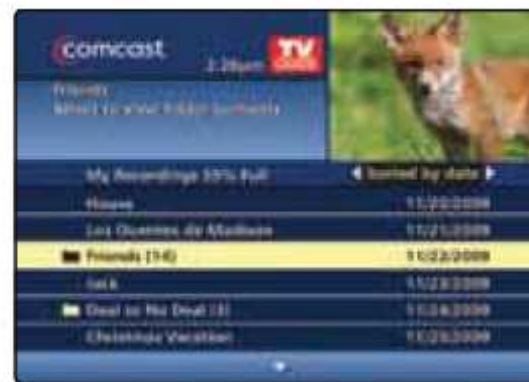
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<p>said A/V display;</p>	<p>display A/V programs on a TV screen. <i>See, e.g., Ex. C -3</i> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 2 (illustrating remote control for use with DCT3412); <b>Ex. C -4</b> [Comcast Digital Cable Guide] at 5 (same).</p> <ul style="list-style-type: none"> <li>• By way of another example, users may use the control panel of the DCT3412 to display A/V programs on a TV screen. <i>See, e.g., Ex. C -1</i> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4-5.</li> </ul> <div> </div> <p><b>Ex. C -1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4.</p>

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	 <p><b>RECORD indicator</b> Lights when DVR is recording</p> <p><b>SELECT switch</b> Selects menu options</p> <p><b>GUIDE switch</b> Displays program guide</p> <p><b>OPTION switch</b> Reserved</p> <p><b>REMOTE indicator</b> Lights when remote control is in use</p> <p><b>CHANNEL</b> Scrolls up or down through the channels</p> <p><b>Display</b> Displays channel number and time of day</p> <p><b>Ex. C -1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 5.</p>
<p>wherein said interface generation means further includes an A/V listing interface for causing said A/V display to selectively display a program listing, said program listing including information related to A/V programs viewable on said A/V display;</p>	<p>The '456 Accused Products include an interface generation means that further includes an A/V listing interface for causing an A/V display to selectively display a program listing.</p> <ul style="list-style-type: none"> <li>By way of one example, the DCT3412 includes hardware and software that causes an A/V display, such as a TV screen, to selectively display program listing for TV content or DVR content. See, e.g., <b>Ex. C -1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 12 (“The DCT3400 can generate on-screen graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The cable terminal overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.”); <b>Ex. C -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6-8; <b>Ex. C -4</b> [Comcast Digital Cable Guide] at 11 (explaining how to display more or less channels in the listing information); See, e.g., <b>Ex. C -1</b> [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 6 (describing “Interactive Program Guide”); <i>id.</i> at 12 (“The DCT3400 can generate on-screen graphics that overlay the video programming or fill</li> </ul>

the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The cable terminal overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.”); **Ex. C -3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (selecting an item to selectively display content about that item); *id.* at 7 (same); **Ex. C -4** [Comcast Digital Cable Guide] at 6, 8, 11-12; 23-24 (same).



**Ex. C -3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (selectively displaying TV content)



**Ex. C -3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (selectively displaying DVR content)

The displayed program listing of the '456 Accused Products includes information related to A/V programs viewable on an A/V display.

- By way of one example, the displayed program listing of the DCT3412 includes information related to A/V programs viewable on the TV screen. As an example, the displayed program listing can indicate the title and broadcast time of TV programs available for viewing. See, e.g., **Ex. C -3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (displaying listing of TV content). As another example, the displayed program listing can indicate the title and date of recording for DVR-recorded programs. See, e.g., **Ex. C -3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (displaying listing of DVR content).



**Ex. C -3** [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 6 (showing listing of TV content)



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	<div> </div> <p><b>Ex. C -3</b> [Comcast, DVR Guide, Dual Tuner HD-Capable DVR] at 7 (showing listing of DVR content)</p>
<p>wherein said interface generation means includes reminder means for identifying television programs on said A/V listing which said user desires to be reminded of;</p>	<p>The interface generation means of the '456 Accused Products includes a reminder means for identifying television programs on a TV listing that the user wants to be reminded of.</p> <ul style="list-style-type: none"> <li>• By way of one example, the interface generation means of the DCT3412 includes reminder means to set reminders of a show displayed in the TV listings. <i>See, e.g., Ex. C -4</i> [Comcast Digital Cable Guide] at 12 (explaining how to set reminders for TV programs from the TV listings).</li> </ul> <div> </div> <p><i>See, e.g., Ex. C -4</i> [Comcast Digital Cable Guide] at 17</p>
<p>wherein said reminder means is activated by said user selecting an audio-visual</p>	<p>The reminder means of the '456 Accused Products is activated by the user selecting an audio-visual program on the A/V listing using the control means, and then activating a mark on the control means.</p>

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program on said A/V listing using said control means, and then activating a mark button on said control means.

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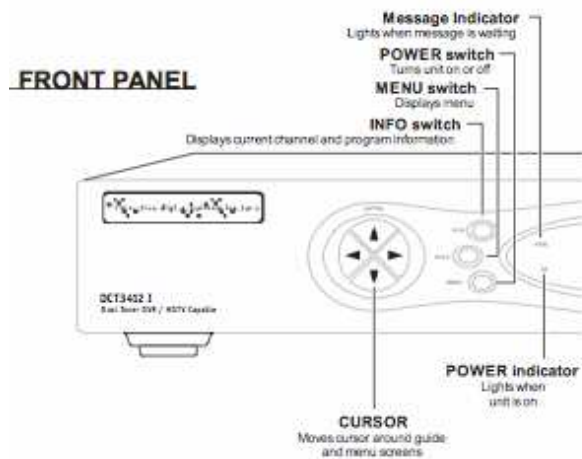
- By way of one example, the reminder means of the DCT3412 is activated by a user choosing the program from the TV listings using the control means, such as the remote control or the front control panel of the DCT3412. By way of further example, the user presses a series of buttons to select a reminder icon in the interactive program guide displayed by the DCT3412, and activates the reminder means by pressing the OK button or Select button.

3. Press the Page  buttons on your remote to view TV channels a page at a time. Use the  buttons to navigate through the listings.

**Ex. C -4** [Comcast Digital Cable Guide] at 11 (explaining how to choose a program in the TV listings using directional arrow buttons on the remote control)

- Highlight a program in TV Listings. Press the  button to view the Program Information screen. Select the Remind  icon and follow the prompts to set or cancel a reminder.

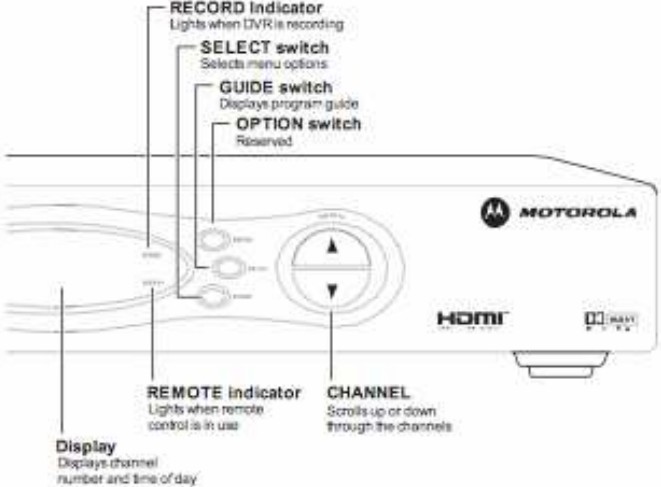
**Ex. C -4** [Comcast Digital Cable Guide] at 12 (explaining the buttons needed to set a reminder)



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**Ex. C -1** [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 4.

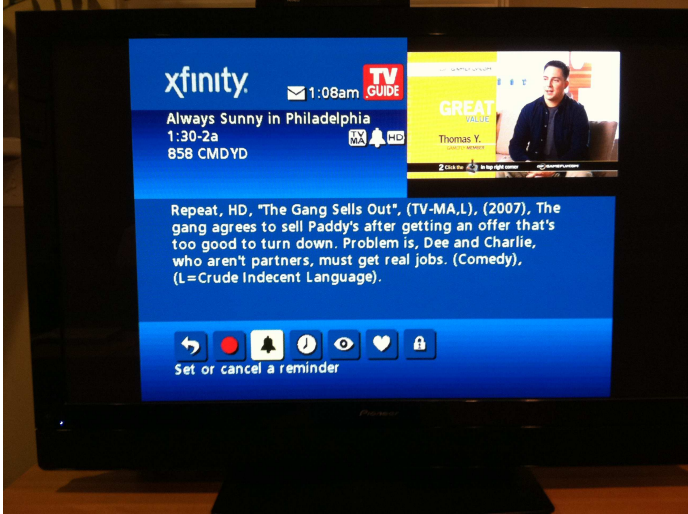


**Ex. C -1** [User Guide, DCT3400 Series High Definition DVR Cable Terminal] at 5.

9. The audio-visual system as defined by claim 8 wherein upon said user activating said mark button, said A/V listing interface means displays a reminder mark adjacent to said selected audio-visual program.

Upon activating the button for the reminder means, the A/V listing interface means of the '456 Accused Products displays a reminder mark adjacent to the selected audio-visual program.



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	 <p>(Screenshot of DCT3412 program guide with Comcast cable service)</p>
<p>10. The audio-visual system as defined by claim 8 wherein said interface means displays a reminder at a predefined location on said A/V display, on the date and at the time said selected audio-visual program is received by said transceiver.</p>	<p>The interface means of the '456 Accused Products displays a reminder at a predefined location on the audio-visual or TV display, on the date and at the time that the selected audio-visual program to be reminded of is received by the transceiver.</p> <ul style="list-style-type: none"> <li>• By way of one example, after setting a reminder for a program, a reminder is displayed at the bottom of the screen on the date and time that the program is received by the DCT3412.</li> </ul>

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(Screenshot of DCT3412 program guide with Comcast cable service)