Initial Bidding Guidance: Low-to-Mid 7 Figures

With a 2001 priority date, the disclosed portfolio describes apparatus, systems and methods covering digital broadcast receivers, video processing, image resolution, display, resizing, monitoring, recording and storage, including:

Abstract (US 8,032,074)
The present invention relates to a connection state setting method of a dual tuner and an apparatus. In accordance with an embodiment of the present invention, the method of setting a tuner connection state of n satellites in a digital broadcast receiver having the plurality of tuners, n being a natural number, that are connected to one or more antennas includes setting the tuner connection state for each satellite by using a satellite signal inputted from each satellite, which has information on one antenna, and setting the tuner connection state between the satellites by using a connection state set for each satellite and the satellite signals inputted from each satellite. Accordingly, with the present invention, the digital broadcast receiver having two tuners can automatically set the connection state of satellite lines of each tuner.

Abstract (US 8,387,157)
The present invention relates to a recording and storage means in digital STB (Set Top Box) and PVR (Personal Video Recorder) and method thereof. The digital broadcast receiver for receiving real-time digital broadcast programs comprises: storage means for storing broadcast programs, being attached and separable to and from a set by a user without taking the set apart; a coupling means for attachment and separation of the storage means to and from a main body of the broadcast receiver; and a connection means as a path for power supply of the storage means, and signal. The method for storing real-time digital broadcast programs comprises the steps of: extracting a broadcast program to be stored from a digital broadcast stream being received by a tuner; detecting whether a storage means is installed in a broadcast receiver; if the storage means is installed, storing the broadcast program in the storage means, if the storage means is not yet installed, storing the broadcast program in a temporary memory, and redetecting the installation of the storage means and if the installation of the storage means is confirmed, storing the broadcast program stored in the temporary memory in the storage means. The present invention allows users to record and store real-time data for an extended period of time, simply by changing the storage medium with a new one without interruption of the data being received.

Abstract (US 8,508,664)
The present invention provides a method for monitoring another video source in addition to a current video source. One method according to the present invention comprises outputting a first video signal provided from a first contents source (for example, a broadcasting channel) and displaying a video from a second video signal provided from a second contents source intermittently with a video from the first video signal on a single screen. During the displaying, a multi-view displaying operation, in which the video from the second video signal is displayed together with the video from the first video signal on the single screen for a first time period, and a single-view displaying operation, in which the video from the first video signal is displayed alone on the single screen for a second time period longer than the first time period, are repeated in an alternate manner.

Abstract (US 8,707,355)
A method of displaying an EPG and a device thereof. According to one aspect of embodiment of the present invention, the method of displaying the EPG (Electronic Program Guide) in a broadcasting electronic device displays an EPG default mode screen having a channel field and an event field in accordance with a user's manipulation of an EPG mode execution command key, adds a field of a predetermined item in accordance with an input signal corresponding to a display mode change key, and displays an EPG addition mode screen to display a specific value of the added field and event information corresponding to a preselected channel.
Abstract (US 8,917,974)
A digital broadcasting receiver, programming a recording a broadcast program, and a method thereof are disclosed. The digital broadcasting receiver can register a programmed channel including one or more channels, stores broadcast data received from the programmed channel as a programmed-recording program in accordance with a predetermined criterion, and stores a next programmed-recording program to replace the stored programmed-recording program if the programmed-recording program is completely stored and broadcast data corresponding to the next programmed-recording program is received. With the present invention, it becomes possible to program a recording although no information on a broadcast program is available, to view a currently-broadcast program from the beginning regardless of when the TV is turned on, and program a recording to exclude commercial programs.

Forward Citing Companies: Apple, Broadcom, Cisco, DirectTV, IBM, LG, Hon Hai, Microsoft, Panasonic, PixArt Imaging Inc., Qualcomm, Samsung, Sony, Toshiba, Verizon

Earliest Priority Date: 10-29-2001

Representative Claims:
US 8,032,074 – Claim #1
A method of setting a tuner connection state of n satellites, n being a natural number, the n satellites being connected to one or more antennas, the method being executed in a digital broadcast receiver comprising a plurality of tuners, the method comprising: setting the tuner connection state for each of the n satellites by using a satellite signal received from each of the n satellites; and setting the tuner connection state of the plurality of tuners between the n satellites by using a connection state set for each of the n satellites and the satellite signal received from each of the n satellites, wherein setting the tuner connection state for each of the n satellites comprises: determining whether each of a first tuner and a second tuner is tuned by tuning each of the first tuner and the second tuner to a first satellite signal received from a satellite of the n satellites; when each of the first tuner and the second tuner is tuned, extracting program specification information (PSI) or service information (SI) from the first satellite signal inputted through the first tuner and the second tuner, respectively, and determining whether the PSI or SI extracted from the first satellite signal inputted through the first tuner and the PSI or SI extracted from the first satellite signal inputted through the second tuner are identical to each other; tuning any one of the first tuner or the second tuner to a second satellite signal having polarization properties different from the first satellite signal when it is determined that the PSI or SI extracted from the first satellite signal inputted through the first tuner and the PSI or SI extracted from the first satellite signal inputted through the second tuner are identical to each other; and setting the tuner connection state of the satellite as dual same when the first tuner and the second tuner are tuned by the first satellite signal and the second satellite signal, respectively.

US 8,707,355 – Claim #1
A method of displaying an Electronic Program Guide (EPG) in a broadcasting electronic device, comprising: in response to receiving a first input of a single key, initially displaying, on a display, an EPG mode screen that includes a channel field and an event field; in response to receiving a second input of the single key, determining a first new field based on a previously stored order of fields and changing the previously displayed screen to display the first new field between the channel field and the event field, wherein the determined first new field is a field in the previously stored order of fields, and the determined first new field is a day field, and wherein the day field is displayed between the channel field and the event field in response to the second input of the single key, and wherein the second input of the single key is after the first input of the single key; displaying a cursor on a preselected channel of the channel field, after displaying the day field; selecting a desired channel of the channel field and a desired day on the day field by moving the cursor based on an up-down-left-right-navigation key, extracting event information corresponding to the selected day and the selected current channel; displaying the event information on the event field according to the selected day and the selected current channel; and in response to receiving a third input of the single key, determining a second new field based on the previously stored order of fields and changing the previously displayed screen to display the second new field, the channel field and the event field, wherein the determined second new fields a second field after the first field in the previously stored order of fields, and wherein the third input of the single key is after the second input of the single key, and the second new field is
a different field from the first new field, wherein in response to receiving the first input of the single key, the event field is displayed with a time axis in a horizontal direction, and in response to receiving the second input of the single key, the event field is changed to display a time axis in a vertical direction, and wherein the second new field is a broadcast type field.

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