CONTINUING DOMESTIC DATA********
VERIFIED

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371 (NAT'L STAGE) DATA********
VERIFIED

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FOREIGN APPLICATIONS********
VERIFIED

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FOREIGN FILING LICENSE GRANTED 03/19/98

Foreign Priority claimed 35 USC 119 (a-d) conditions met Verified and Acknowledged	☐yes ☐no ☐yes ☐no ☐Met after Allowance Examiner's Initials _____ Initials	STATE OR COUNTRY	SHEETS DRAWING	TOTAL CLAIMS	INDEPENDENT CLAIMS
		CA	9		

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TITLE

WEB RADIO

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PROVISIONAL APPLICATION FOR PATENT COVER SHEET

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ATTENTION: PROVISIONAL PATENT APPLICATION

Sir:

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR § 1.53(b)(2).

For: **WEB RADIO**

Name of First Inventor: **Safi Qureshey**

Residence Address: **11741 Skyline Drive, Santa Ana, California 92705-3145**

Name of Second Inventor: **Wasi Qureshey**

Residence Address: **7 Foxboro, Irvine, California 92614-7525**

Enclosed are:

(X) Specification in 13 pages.

(X) NINE (9) sheets of drawings.

(X) A check in the amount of $150 to cover the filing fee is enclosed.

(X) A return prepaid postcard.

(X) The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Account No. 11-1410. A duplicate copy of this sheet is enclosed.

Was this invention made by an agency of the United States Government or under a contract with an agency of the United States Government?

(X) No.

(X) Please send correspondence to:

Louis J. Knobbe
Knobbe, Martens, Olson & Bear, LLP
620 Newport Center Dr., 16th Floor
Newport Beach, CA 92660

Respectfully submitted,

Louis J. Knobbe
Registration No. 18,780

LWH-1631:lcb
012298

WEB RADIO

Brief Description of the Figures

The various novel features of the invention are illustrated in the figures listed below and described in the detailed description which follows.

Figure 1 is a perspective view of one embodiment of a table-top Web radio.

Figure 2 is a block diagram of the functional elements of the Web radio.

Figure 3A shows a default display that appears while a Web broadcast is being received.

Figure 3B shows a menu display that allows the user to select one of the command and setup displays shown in Figures 3C-3E.

Figure 3C illustrates a select language display that allows a user to specify desired languages (e.g., English, French, etc.).

Figure 3D illustrates a display that allows a user to select a type of program material (e.g., news, sports, weather, etc.).

Figure 3E illustrates a display that allows a user to select various program broadcasts.

Figure 4 illustrates a data-entry display that the Web radio uses to allow the user to input alpha-numeric text.

Figure 5 is a flowchart that illustrates operation of the Web radio.

Figure 6 illustrates the information management and data processing functions provided by the ISP to produce a list of Web radio broadcast stations for the user.

Figure 7 is a perspective view of a table-top Web radio tuner.

Figure 8 is a block diagram of the functional elements of the Web radio tuner shown in Figure 7.

In the figures, the first digit of any three-digit number indicates the number of the figure in which the element first appears. For example, an element with the

reference number 502 first appears in Figure 5. Where four-digit reference numbers are used, the first two digits indicate the figure number.

Detailed Description of the Preferred Embodiment

One aspect of the present invention is a Web radio device that allows a user to receive digitized radio broadcasts over the World Wide Web (Web). The Web radio provides the hardware and software necessary to receive digitized radio from the Web without the need for a personal computer or other expensive equipment. The Web radio provides a display device, such as a Liquid Crystal Display (LCD) that allows the user to select a desired Web broadcast from a list of available Web broadcasts. The display also allows the user to select Web broadcasts in a particular language.

In one embodiment, the Web radio is a low-cost table-top box that connects to an AC power line and a phone line. The device includes a display device, speakers, a control panel, a computer processor, a stored software program, and a modem. The Web radio uses the modem to establish a telephone connection to an Internet Service Provider (ISP). The stored software program connects to a Web radio home page, usually provided by the ISP, and downloads a list of Web radio stations. Alternatively, the use may enter a web address (e.g., a Uniform Resource Locator (URL)) to connect directly to a web page that provides audio broadcasts (instead of first connecting to the Web radio home page). The user may use buttons on the control panel to scroll through the display and select a Web radio broadcast "station" for listening. When a station is selected, the stored software program connects to the station and begins to receive digitized audio data transmitted by the station. The Web radio converts the received data to analog audio and plays the audio on the speaker.

In an alternate embodiment, the Web radio is a tuner that connects to an audio system such as a component stereo system. The tuner provides an audio output to the audio system. The audio system provides amplifiers and loudspeakers. The tuner comprises an enclosure that connects to an AC power line, a phone line, and the audio

system. The tuner includes a display device, a control panel, a computer processor, a stored software program, and a modem. The Web radio uses the modem to establish a telephone connection to an Internet Service Provider (ISP). The stored software program connects to a Web radio home page, usually provided by the ISP, and downloads a list of Web radio stations. A user may use buttons on the control panel to scroll through the display and select a Web radio broadcast "station" for listening. When a station is selected, the stored software program connects to the station and begins to receive digitized audio data transmitted by the station. The Web radio converts the received data to analog audio which is provided to the audio system.

Figure 1 illustrates one embodiment of a table-top Web radio 100. The Web radio 100 is mounted in an enclosure 101 and connects to household AC power through a power cord 104 and to a communications network by a network cable 102. The network cable 102 may be a telephone line, a network cable, a cable TV cable, a connection to a wireless (e.g., satellite) unit, etc. User controls are mounted on the front of the enclosure 101 and include a combined on-off and volume control 110, a command button 121, a cursor control 116, a select button 118, a tuning control 114, and a button bar 120. The cursor control 116 provides up, down, left, and right movements of a cursor or other entity on a display device 112. The button bar 120 provides buttons to select an audio source, including, for example, "AM" radio, "FM" radio, "Web" radio, "Cassette", and "External" input. Also mounted on the front of the enclosure 101 is the display device 112 which provides information to the user. An optional cassette player/recorder 130 provides the capability to play and record audio cassettes. The Web radio 100 also includes a left stereo speaker 106 and a right stereo speaker 108 which may be mounted in the enclosure 101 or in separate enclosures.

Figure 2 is a block diagram of the functional elements of the Web radio 100. The Web radio 100 comprises a Central Processor Unit (CPU) 202 which is used to run the Web radio software. The CPU 202 is connected to a random access memory

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