

(12) **United States Patent**  
**Treyz et al.**

(10) **Patent No.:** **US 6,678,215 B1**  
 (45) **Date of Patent:** **Jan. 13, 2004**

(54) **DIGITAL AUDIO DEVICES**

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(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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*Primary Examiner*—Vit Miska

(21) Appl. No.: **09/528,814**

(22) Filed: **Mar. 20, 2000**

**Related U.S. Application Data**

(60) Provisional application No. 60/173,247, filed on Dec. 28, 1999.

(51) **Int. Cl.**<sup>7</sup> ..... **G94B 47/00**; G94B 47/02;  
 G94B 23/02; H04B 1/00

(52) **U.S. Cl.** ..... **368/10**; 368/12; 368/13;  
 368/73; 379/110.01

(58) **Field of Search** ..... 368/10, 11, 12,  
 368/47, 72-74, 185-187, 250, 251; 379/110.01,  
 102.01, 102.03

(56) **References Cited**

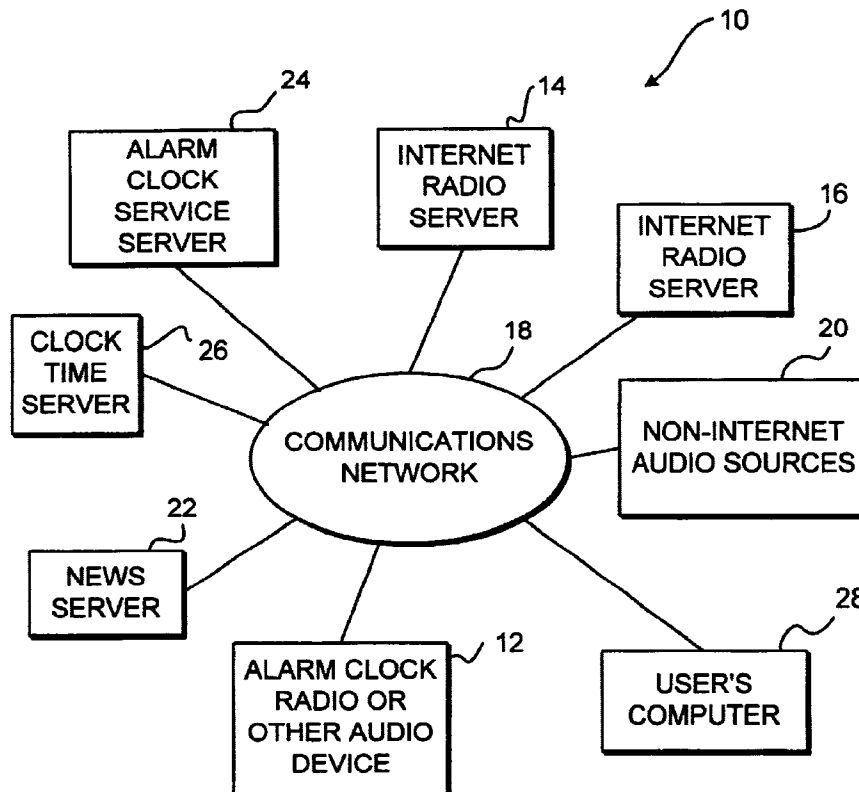
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(57) **ABSTRACT**

An alarm clock radio is provided that handles downloaded audio files and streaming digital audio files. The alarm clock radio may have buttons and displays that allow the user to adjust various alarm clock radio settings. The user may also adjust settings remotely over the Internet or over an in-home network. The user may customize the audio content that is provided with the alarm clock radio. Advertisements may be provided to the user. The user may be provided with an opportunity to subscribe to a content service. Content such as Internet radio station content, e-mail, news and other audio content may be provided to the user from the service. The user may set reminders for particular times and dates using the alarm clock radio. The alarm clock radio may also have a telephone handset. The alarm clock radio may have buttons and knobs and may provide on-screen options that allow the user to tune to AM and FM and Internet radio stations and to control the operation of the alarm clock radio.

**4 Claims, 19 Drawing Sheets**



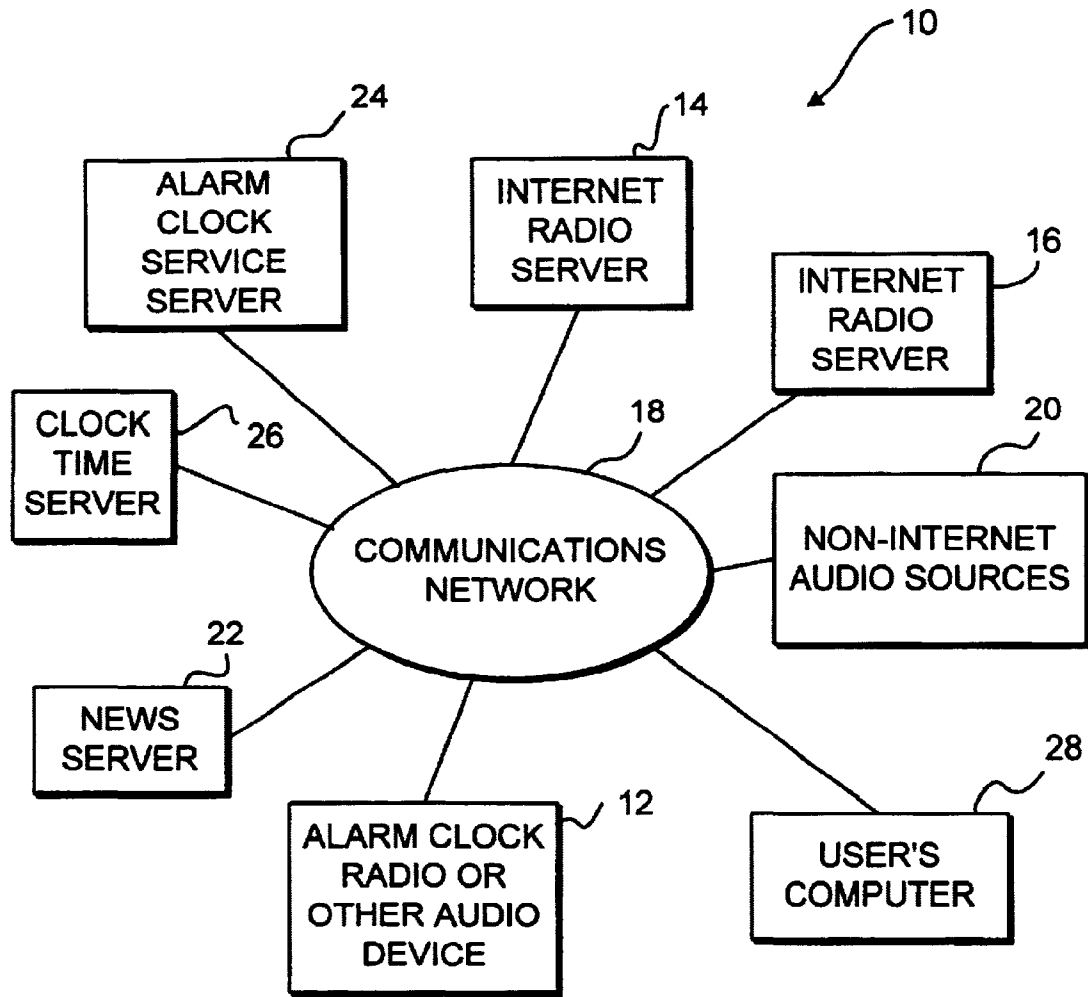


FIG. 1

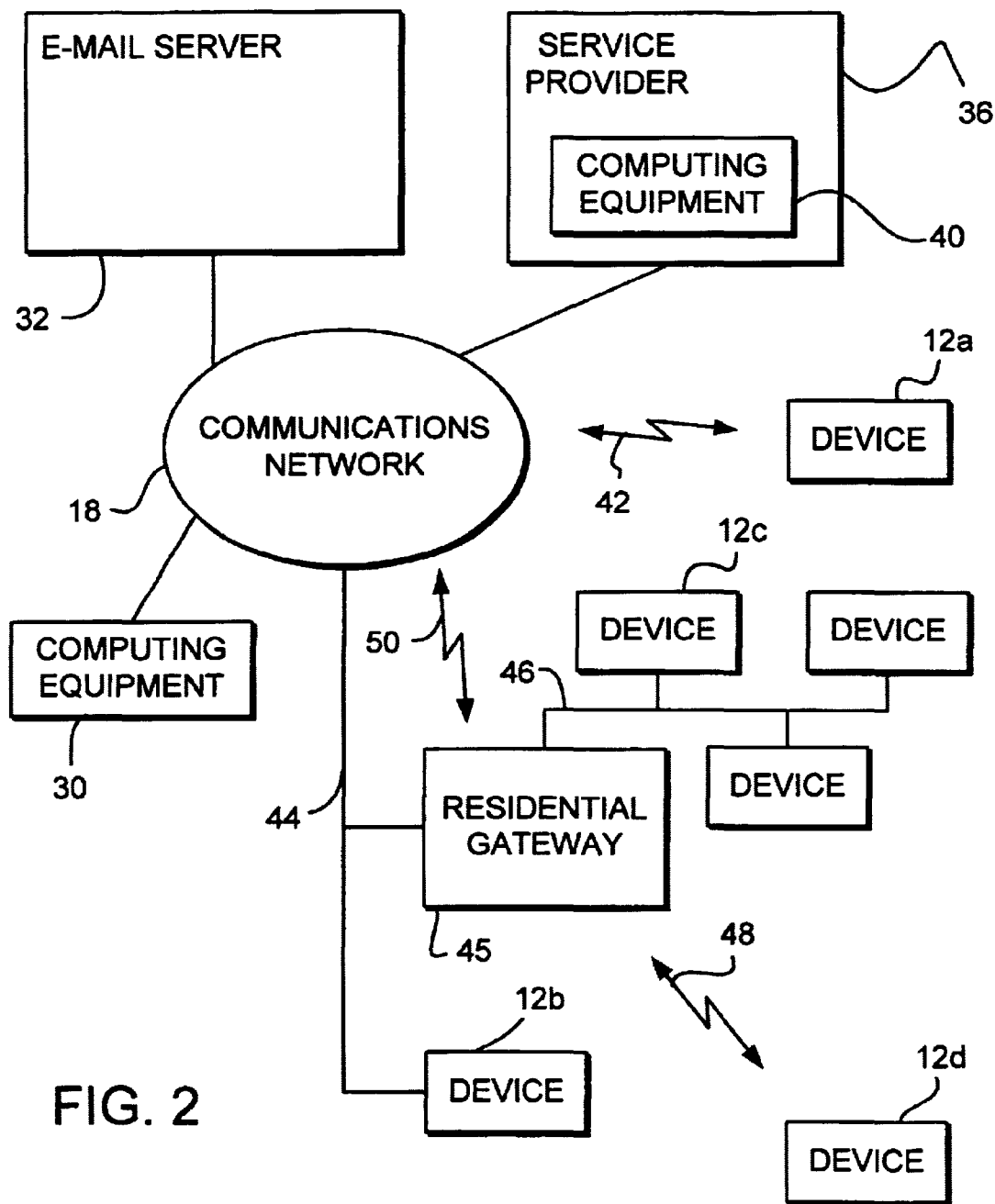


FIG. 2

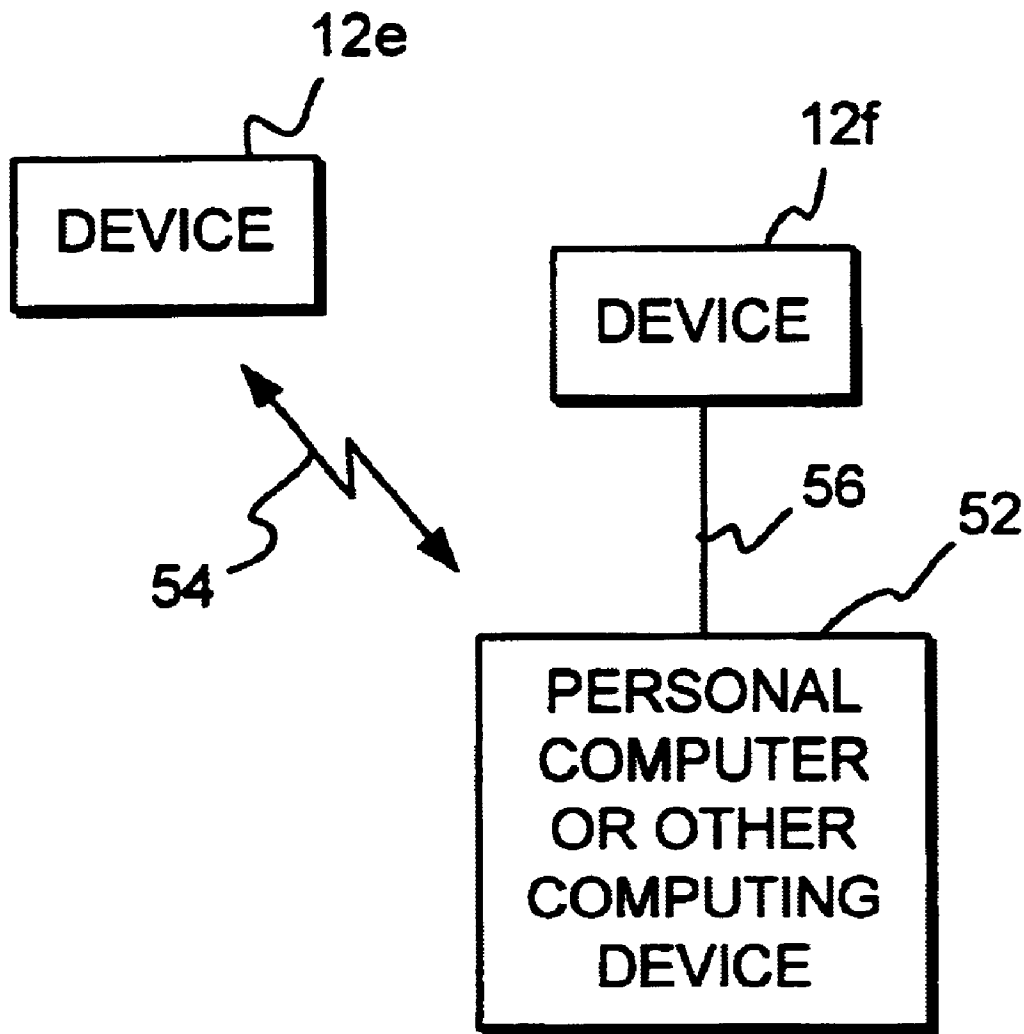


FIG. 3

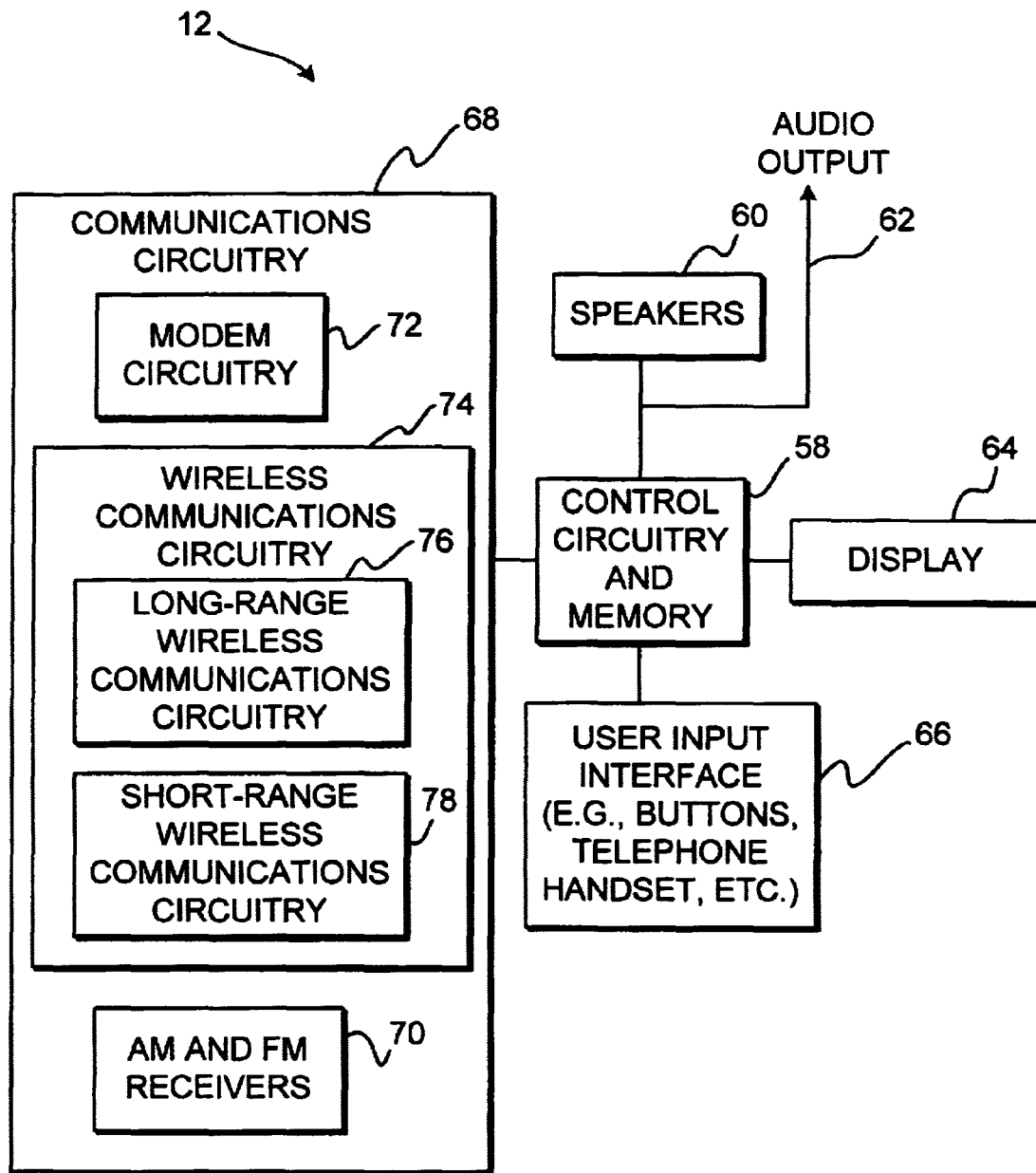


FIG. 4

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