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Woolfork

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(54) **WIRELESS DIGITAL AUDIO MUSIC SYSTEM**

(75) Inventor: **C. Earl Woolfork**, Pasadena, CA (US)

(73) Assignee: **One-E-Way, Inc.**, Pasadena, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 153 days.

This patent is subject to a terminal disclaimer.

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Related U.S. Application Data

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(51) **Int. Cl.**

G06F 17/00 (2006.01)

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(52) **U.S. Cl.**

CPC **H04R 1/1083** (2013.01); **H04R 5/033** (2013.01); **H04R 2420/07** (2013.01)

(58) **Field of Classification Search**

USPC 700/94

See application file for complete search history.

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Primary Examiner — Andrew C Flanders

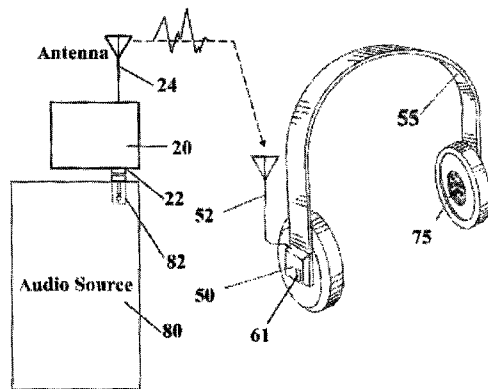
(74) *Attorney, Agent, or Firm* — Megan E. Lyman

(57)

ABSTRACT

A wireless digital audio system includes a portable audio source with a digital audio transmitter operatively coupled thereto and an audio receiver operatively coupled to a head-phone set. The audio receiver is configured for digital wireless communication with the audio transmitter. The digital audio receiver utilizes fuzzy logic to optimize digital signal processing. Each of the digital audio transmitter and receiver is configured for code division multiple access (CDMA) communication. The wireless digital audio system allows private audio enjoyment without interference from other users of independent wireless digital transmitters and receivers sharing the same space.

12 Claims, 3 Drawing Sheets



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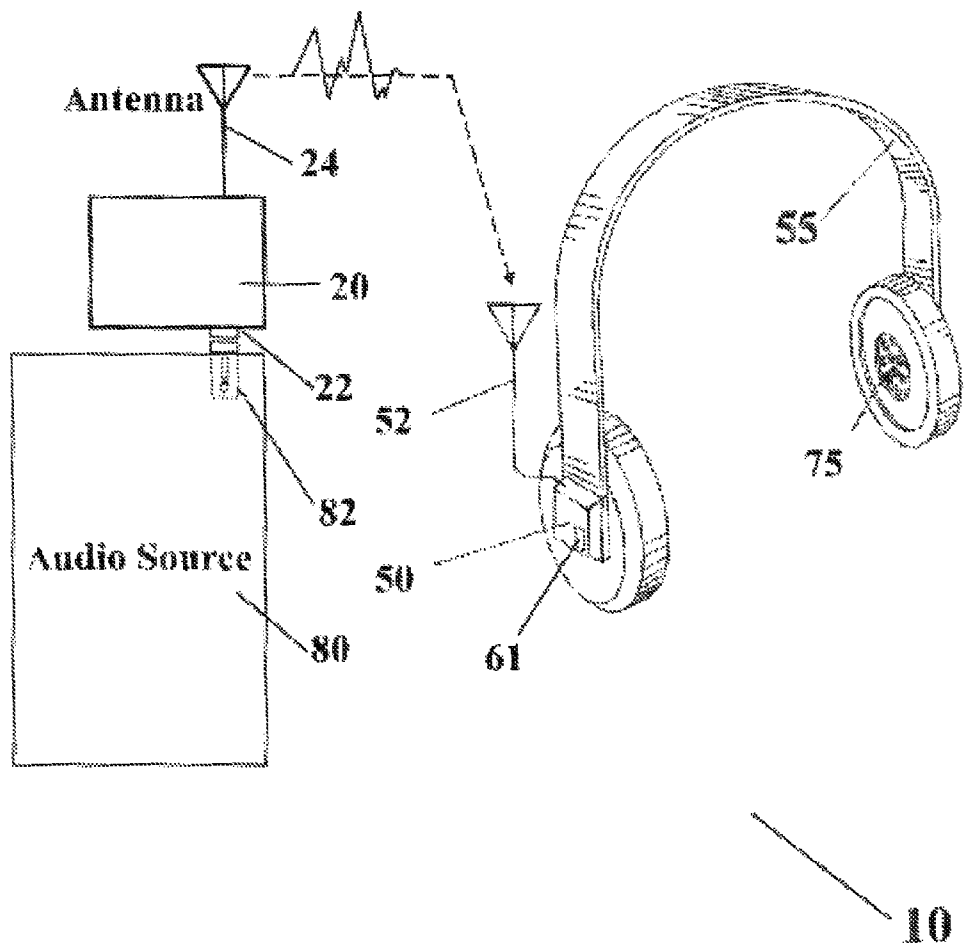


FIG.1

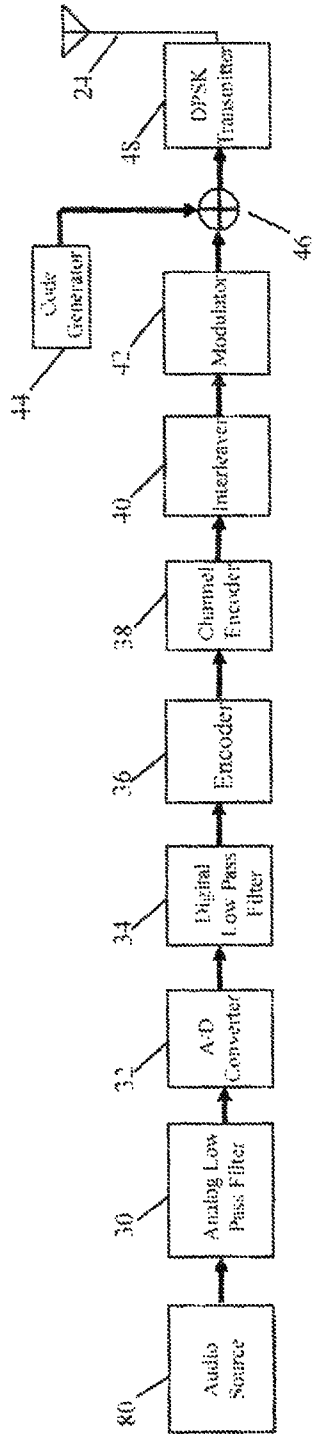


FIG. 2

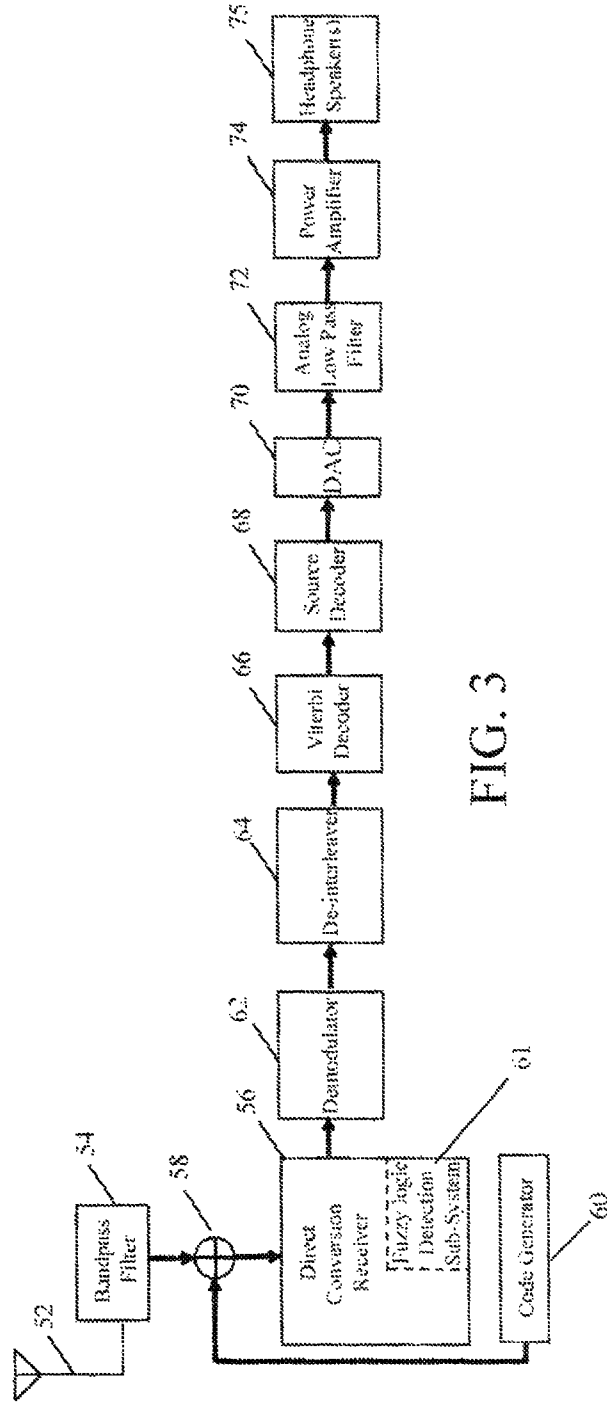


FIG. 3

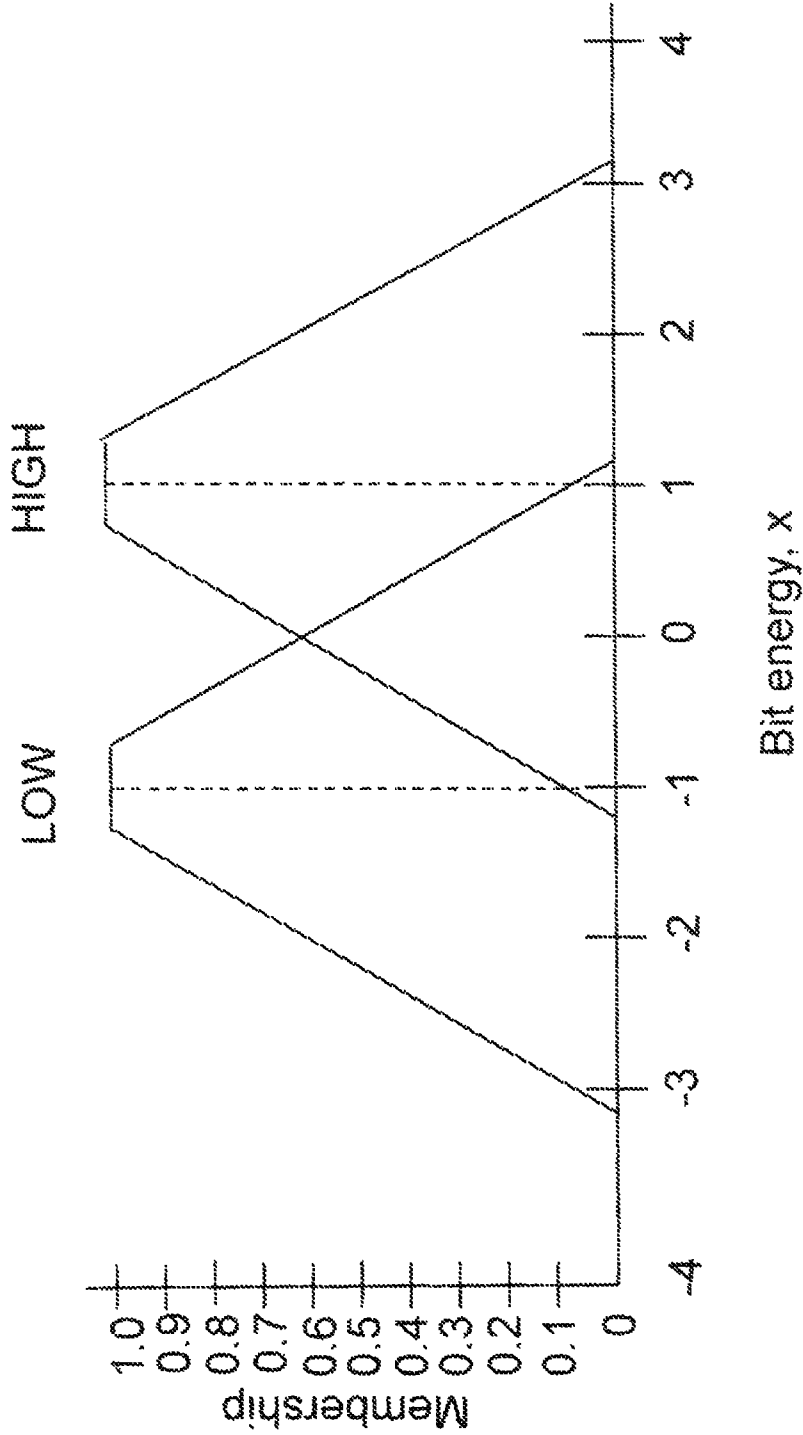


Fig. 4

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