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(12) **United States Patent**
Hochendoner

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(54) **DIGITAL AUDIO RECORDER**

OTHER PUBLICATIONS

- (75) Inventor: **David Hochendoner**, Allison Park, PA (US)
- (73) Assignee: **Sima Products Corporation**, Oakmont, PA (US)
- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 737 days.

Disclosure made by Sima Products of an I-Mix Product in an advertisement in *Electronic Consumer Daily News*, Friday, Jan. 7, 2000, p. 39.
 "Sima in the News" Press Release dated Jan. 6, 2000. Display pages for the Consumer Electronics Show.

* cited by examiner

Primary Examiner—Ali Neyzari
(74) Attorney, Agent, or Firm—Buchanan Ingersoll, P.C.

- (21) Appl. No.: **09/760,058**
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- (65) **Prior Publication Data**
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(57) **ABSTRACT**

A digital audio recorder having a compact disk player for playing at least one compact disk having multiple tracks also has a hard drive and associated memory. The memory contains a database containing data relating to specific CD's such as album name, artist name, song title, and track, and may also contain playlists. The playlists can be loaded by the manufacturer or created by the user. There are correlations among the data. A central processor is connected to the compact disk player, the hard drive and associated memory, a second memory, display, audio output and buttons or knobs. Turning knobs or pushing buttons directs signals to the central processor and enables a user to operate the compact disk player, store in the second memory audio selections from a disk placed in the compact disk player, select and create playlists, and output audio selections contained in the second memory in an order according to a selected playlist. A keyboard communicates with the player through infrared signals.

- (51) **Int. Cl.**⁷ **G11B 21/08**
- (52) **U.S. Cl.** **369/30.06; 369/30.08; 710/301; 711/111**
- (58) **Field of Search** **369/24.01, 30.04, 369/32.01, 30.06, 30.05, 30.08, 30.09, 30.03, 30.07, 30.19, 2, 6; 711/111; 710/301, 62, 10, 13; 707/104.1; 455/66.1; 703/24; 709/219**

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8 Claims, 5 Drawing Sheets

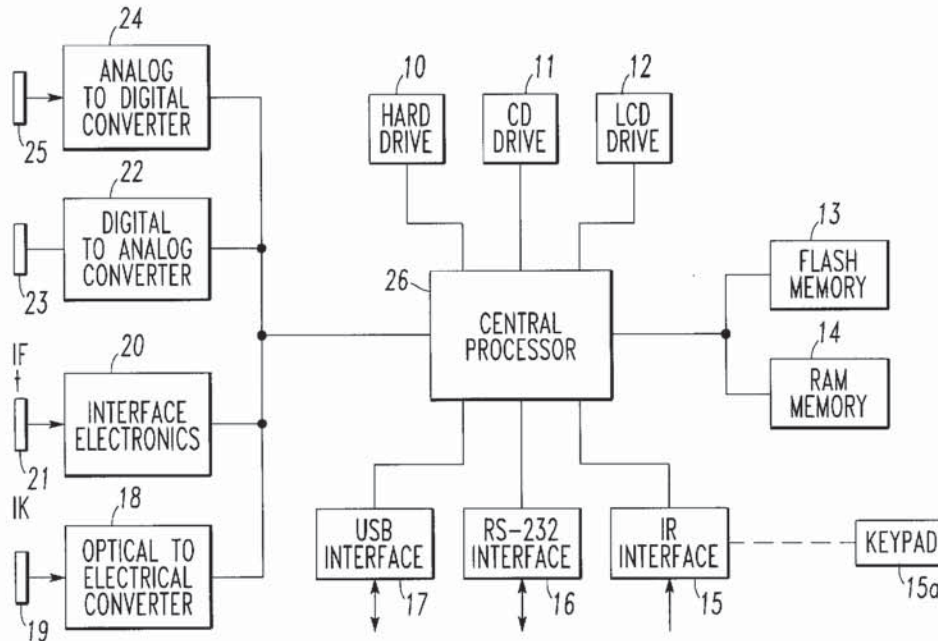


FIG. 1

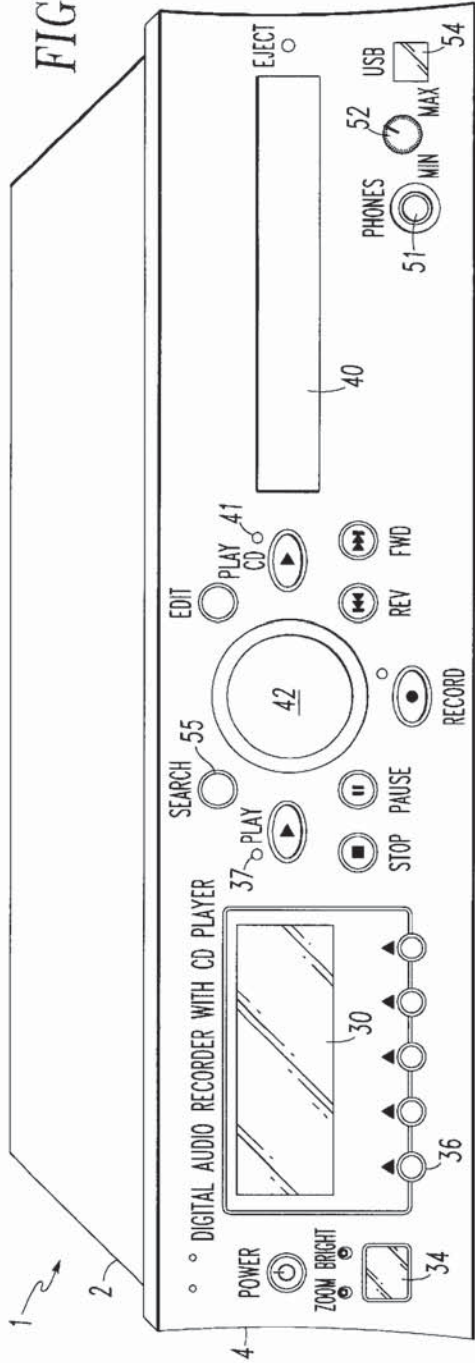
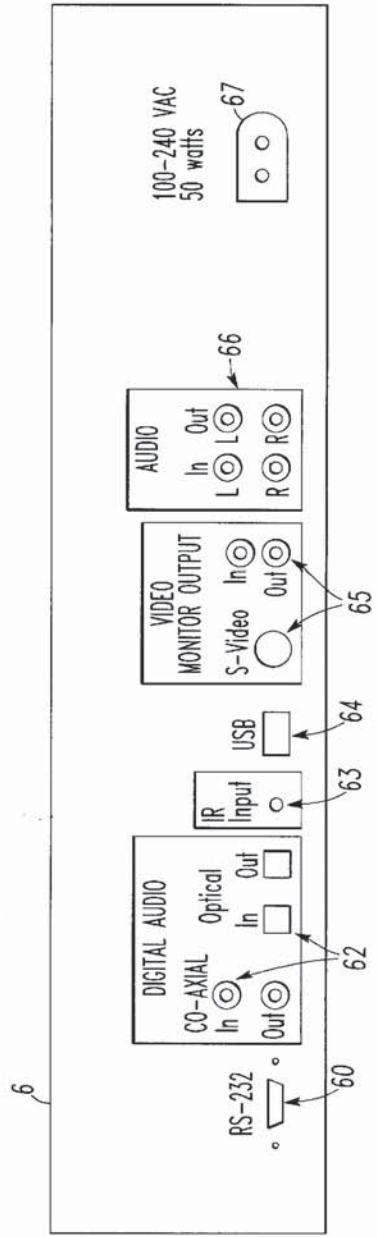


FIG. 2



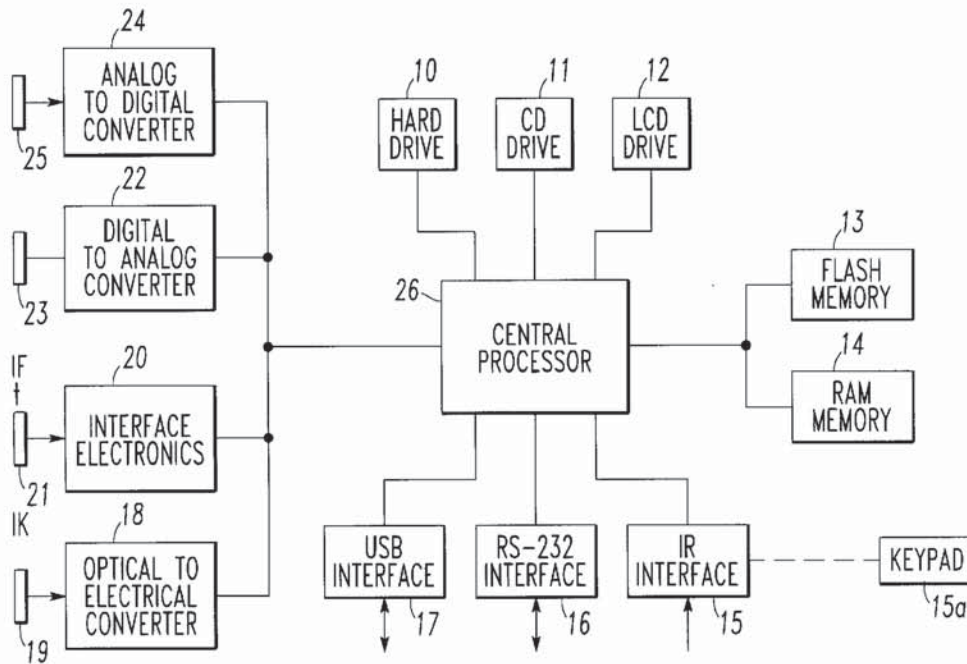


FIG. 3

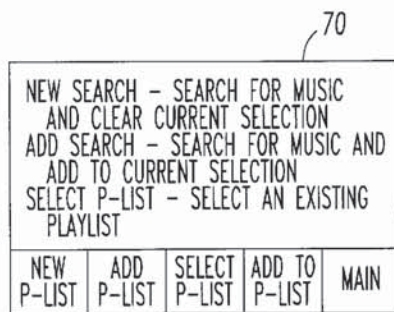


FIG. 5

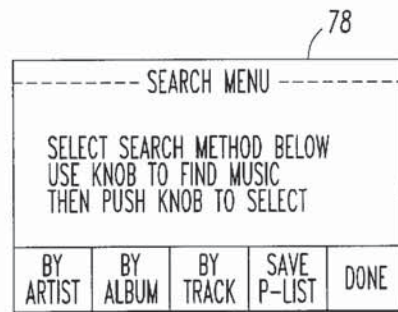
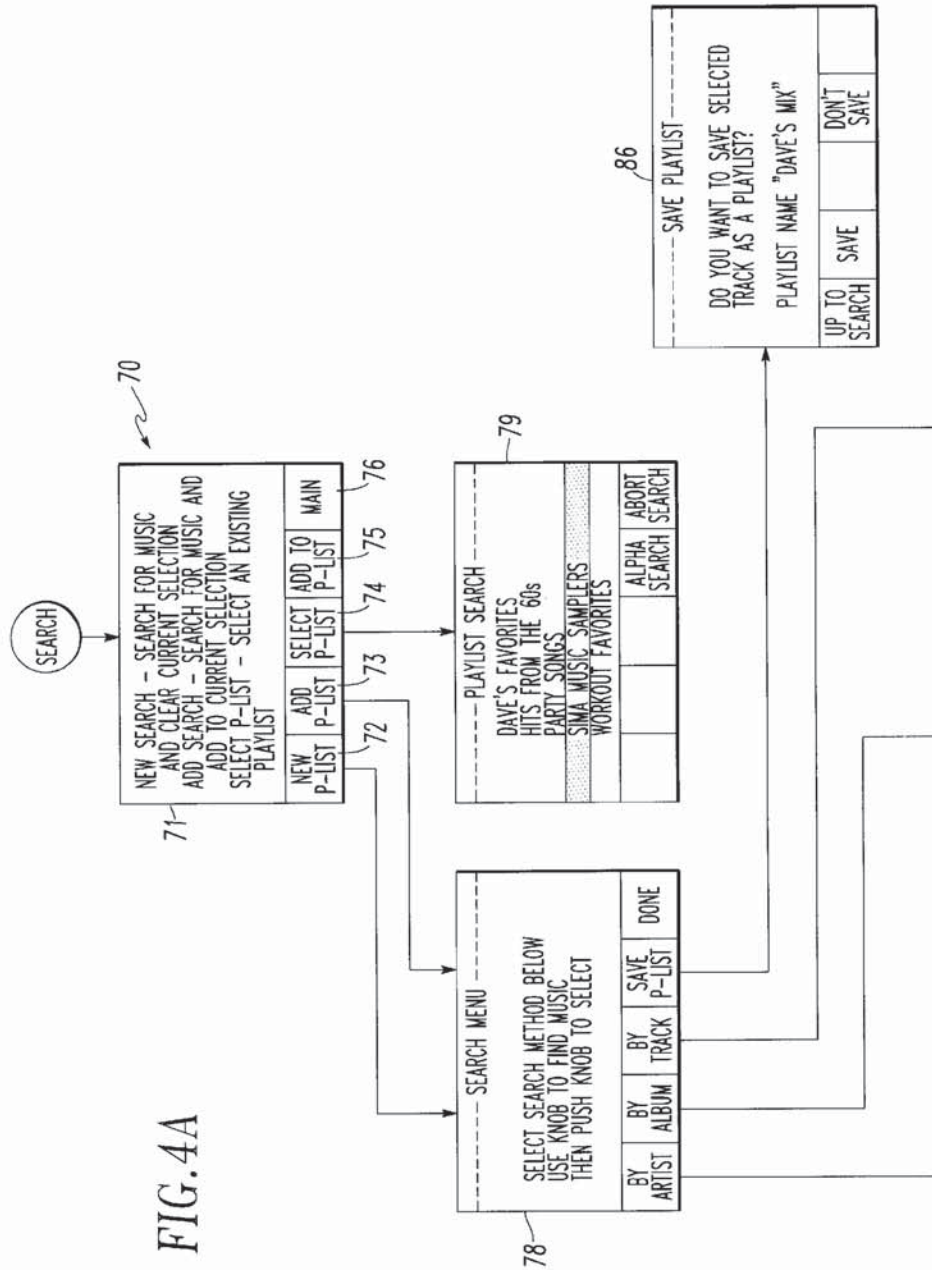


FIG. 6



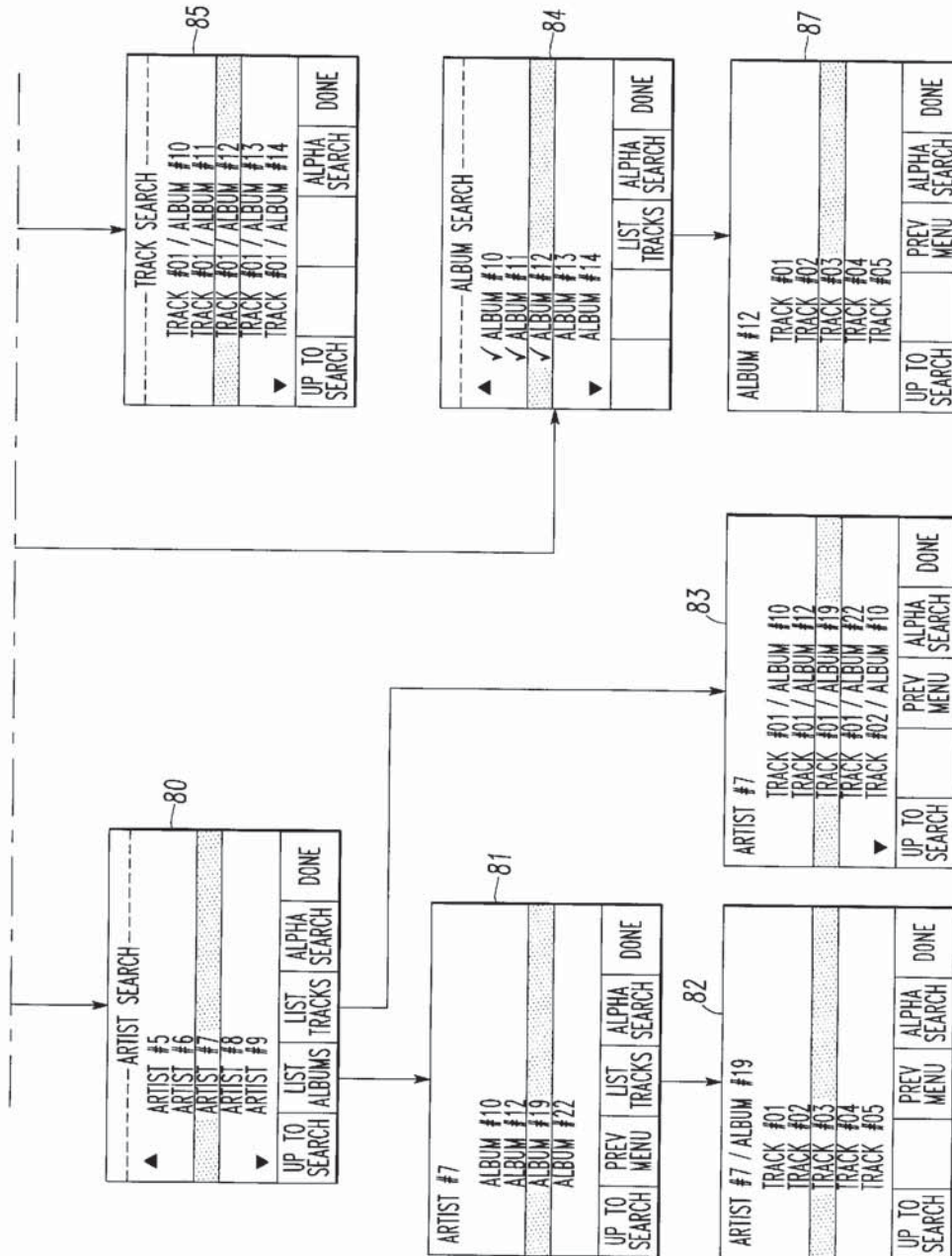


FIG. 4B

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