

US005274560A

United States Patent [19]

LaRue

[11] Patent Number:

5,274,560

[45] Date of Patent:

Dec. 28, 1993

[54]	SENSOR FREE VEHICLE NAVIGATION
	SYSTEM UTILIZING A VOICE
	INPUT/OUTPUT INTERFACE FOR
	ROUTING A DRIVER FROM HIS SOURCE
	POINT TO HIS DESTINATION POINT

[75] Inventor: Charles LaRue, La Canada, Calif.

[73] Assignee: Audio Navigation Systems, Inc., La

Canada, Calif.

[21] Appl. No.: 675,632

[22] Filed: Mar. 27, 1991

Related U.S. Application Data

[63]	Continuation-in-part of Ser. No. 621,577, Dec. 3, 19 abandoned.	90,
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[51]	Int. Cl.5	G06F 15/5
[52]	U.S. Cl	364/444; 364/449
		340/988; 381/42; 395/
[58]	Field of Search	364/443, 444, 454, 449

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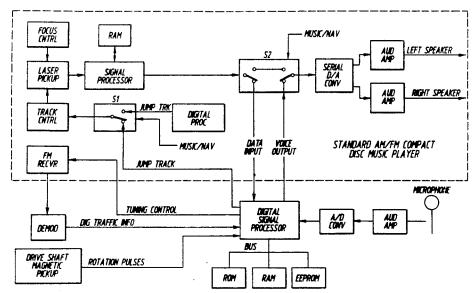
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Primary Examiner—Vincent N. Trans Attorney, Agent, or Firm—Spensley, Horn, Jubas & Lubitz

[57] ABSTRACT

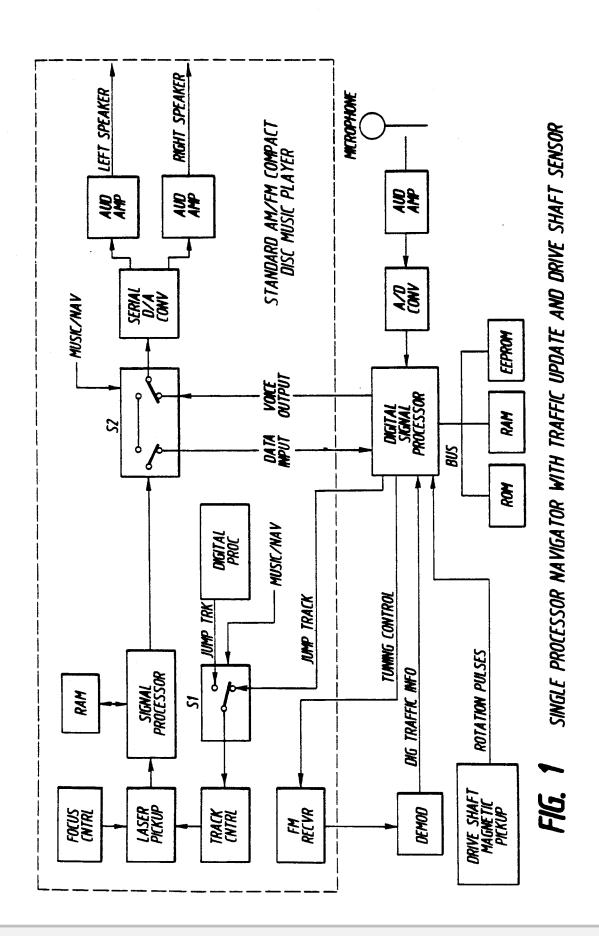
An audio navigation system including an artificial intelligence routing algorithm which does not require any internal or external sensors to locate the vehicle. The interface with the driver is via voice input and voice output and is therefor visually non-distracting and safe to use when the vehicle is in motion. The hardware is built around an optical disk player and therefor can be used for entertainment as well as navigation functions. Digitized maps, compressed voice records and the computer programs are stored on an optical disk.

13 Claims, 8 Drawing Sheets

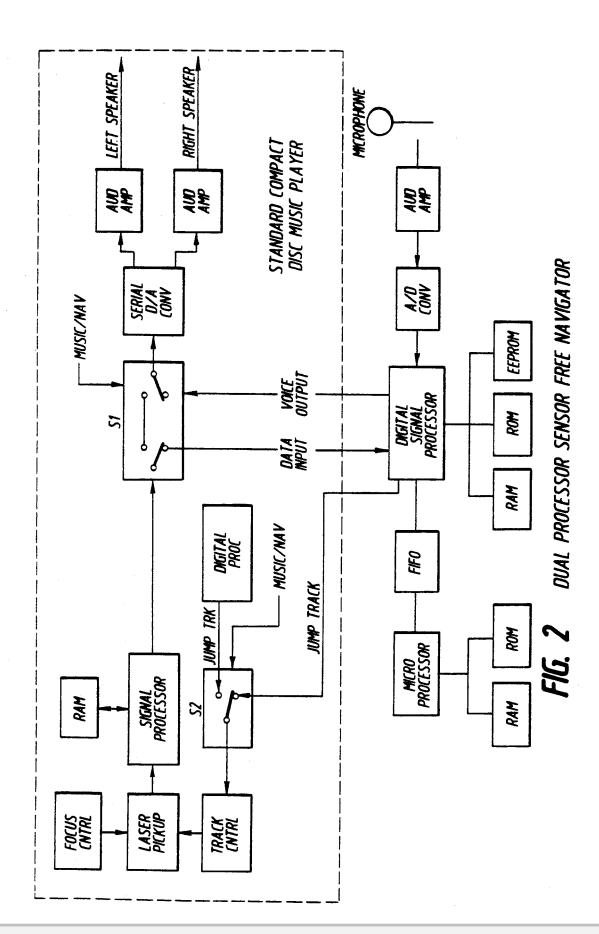


SINGLE PROCESSOR NAVIGATOR WITH TRAFFIC UPDATE AND DRIVE SHAFT SENSOR

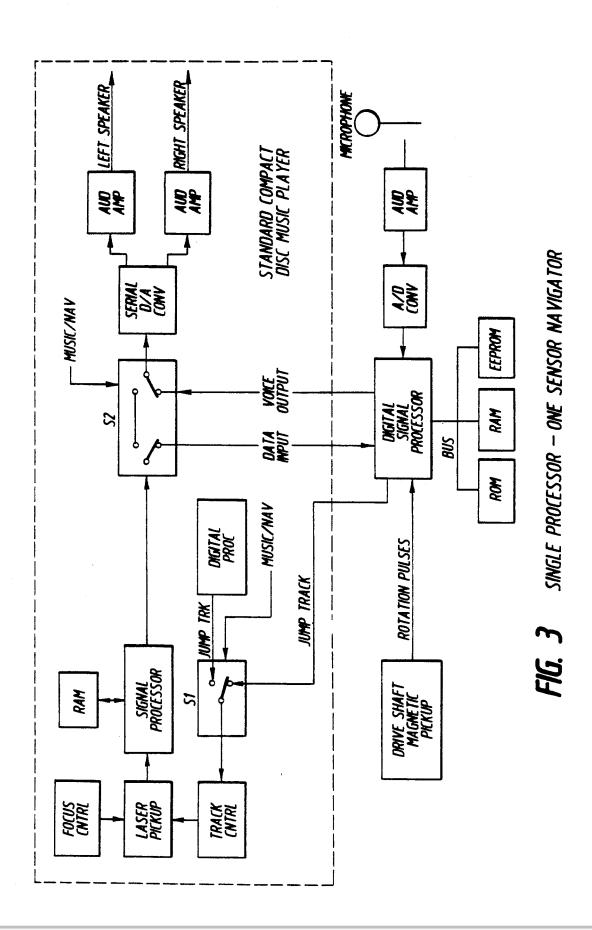




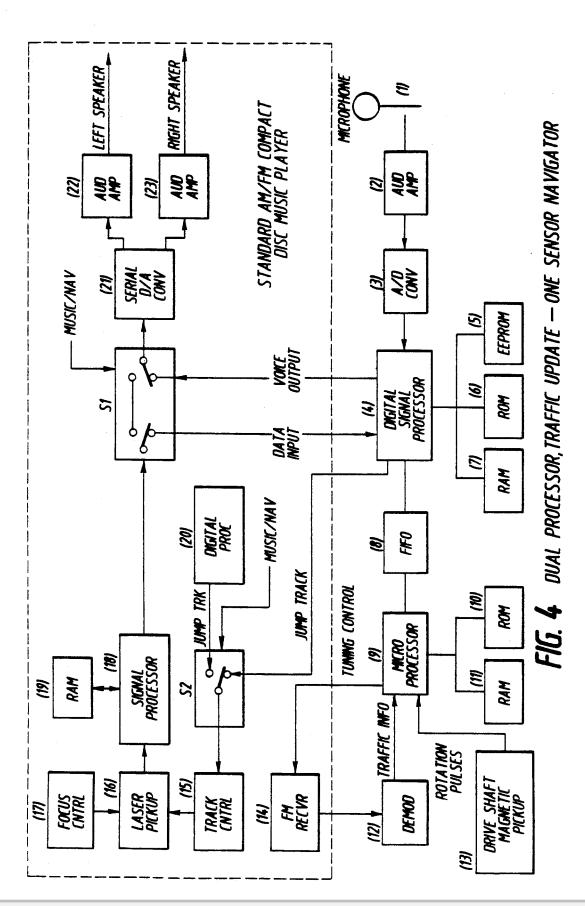














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