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**United States Patent** [19]  
**Houser et al.**

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- [54] **INFORMATION SYSTEM HAVING A SPEECH INTERFACE**
- [75] Inventors: **Peter B. Houser**, Poway, Calif.; **Mark E. Schutte**, Sugar Hill, Ga.; **Gloria J. Majid**, San Diego, Calif.
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- [21] Appl. No.: **367,997**
- [22] Filed: **Jan. 3, 1995**
- [51] **Int. Cl.**<sup>6</sup> ..... **H04N 7/00; G10L 9/00**
- [52] **U.S. Cl.** ..... **704/275**
- [58] **Field of Search** ..... 395/2.79, 2.84; 704/275, 270

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*Attorney, Agent, or Firm*—Kenneth M. Massaroni; Kelly A. Gardner

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[57] **ABSTRACT**

A system for controlling a device such as a television and for controlling access to broadcast information such as video, audio, and/or text information is disclosed. The system includes a first receiver for receiving utterances of a speaker, a second receiver for receiving vocabulary data defining a vocabulary of utterances, and a processor for executing a speech recognition algorithm using the received vocabulary data to recognize the utterances of the speaker and for controlling the device and the access to the broadcast information in accordance with the recognized utterances of the speaker.

**10 Claims, 28 Drawing Sheets**

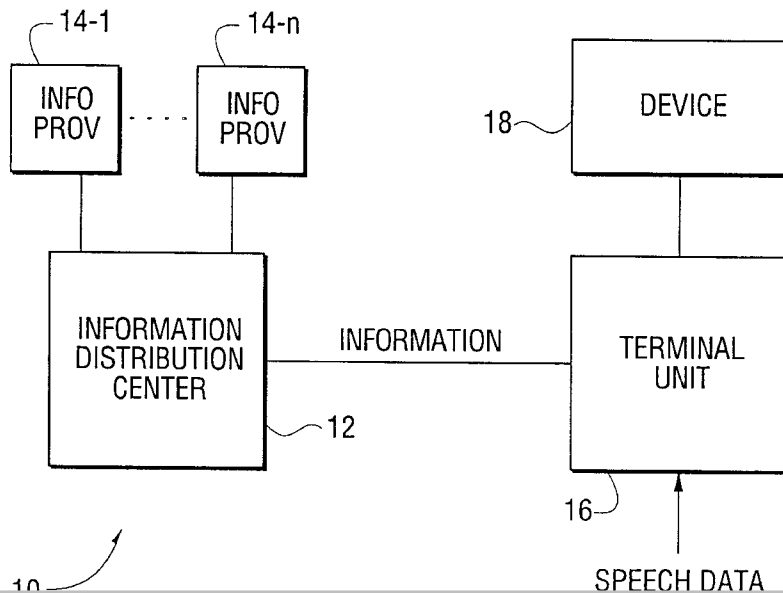


FIG. 1

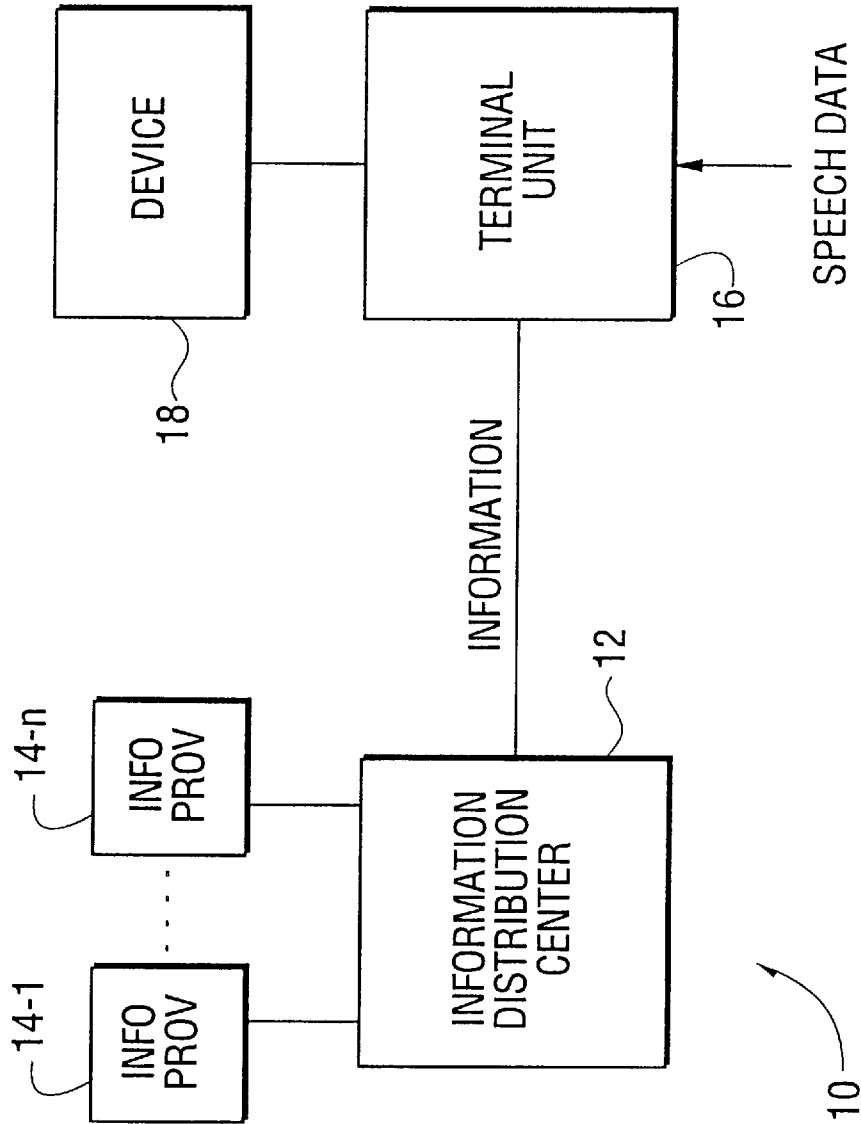


FIG. 2A

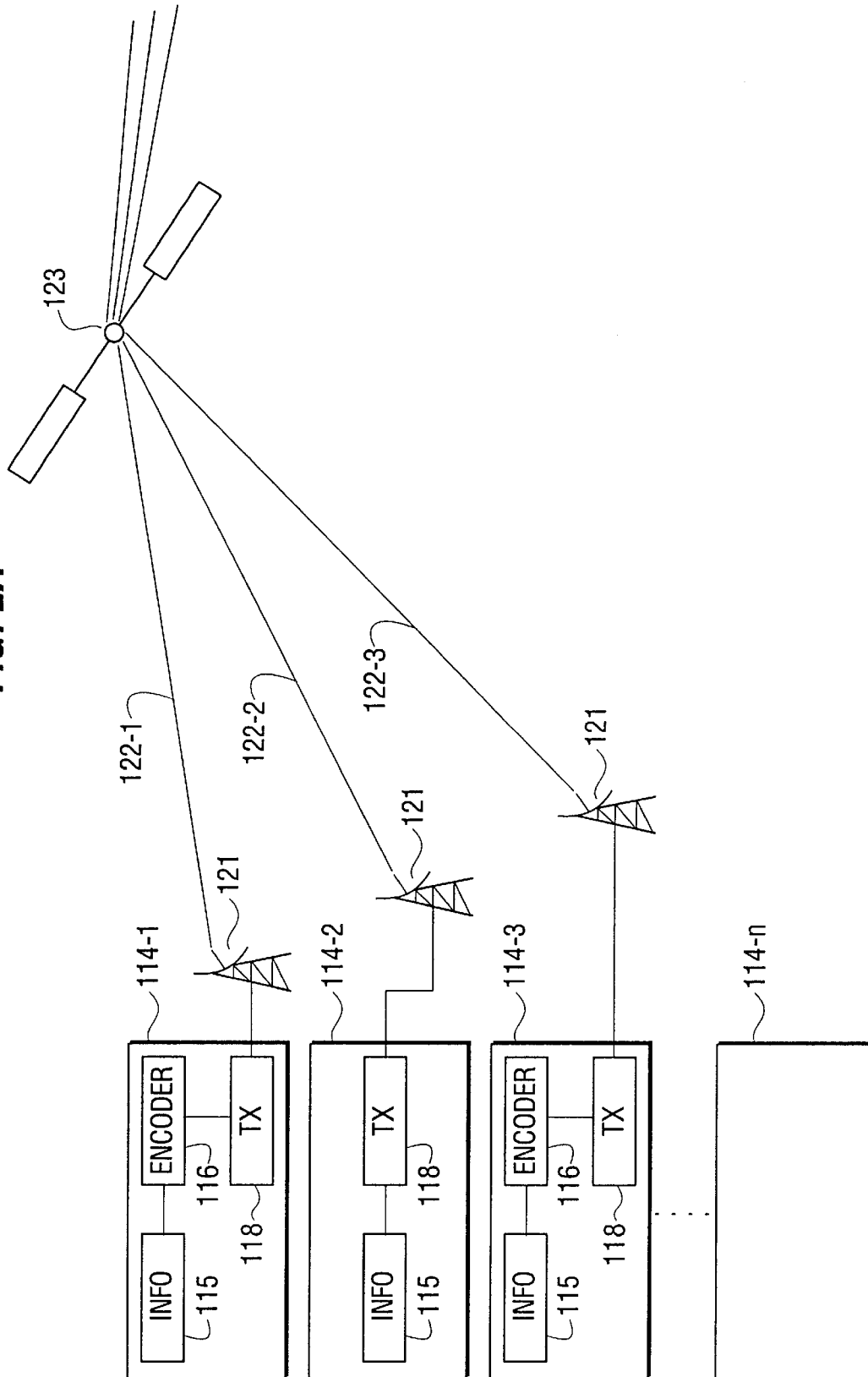


FIG. 2B

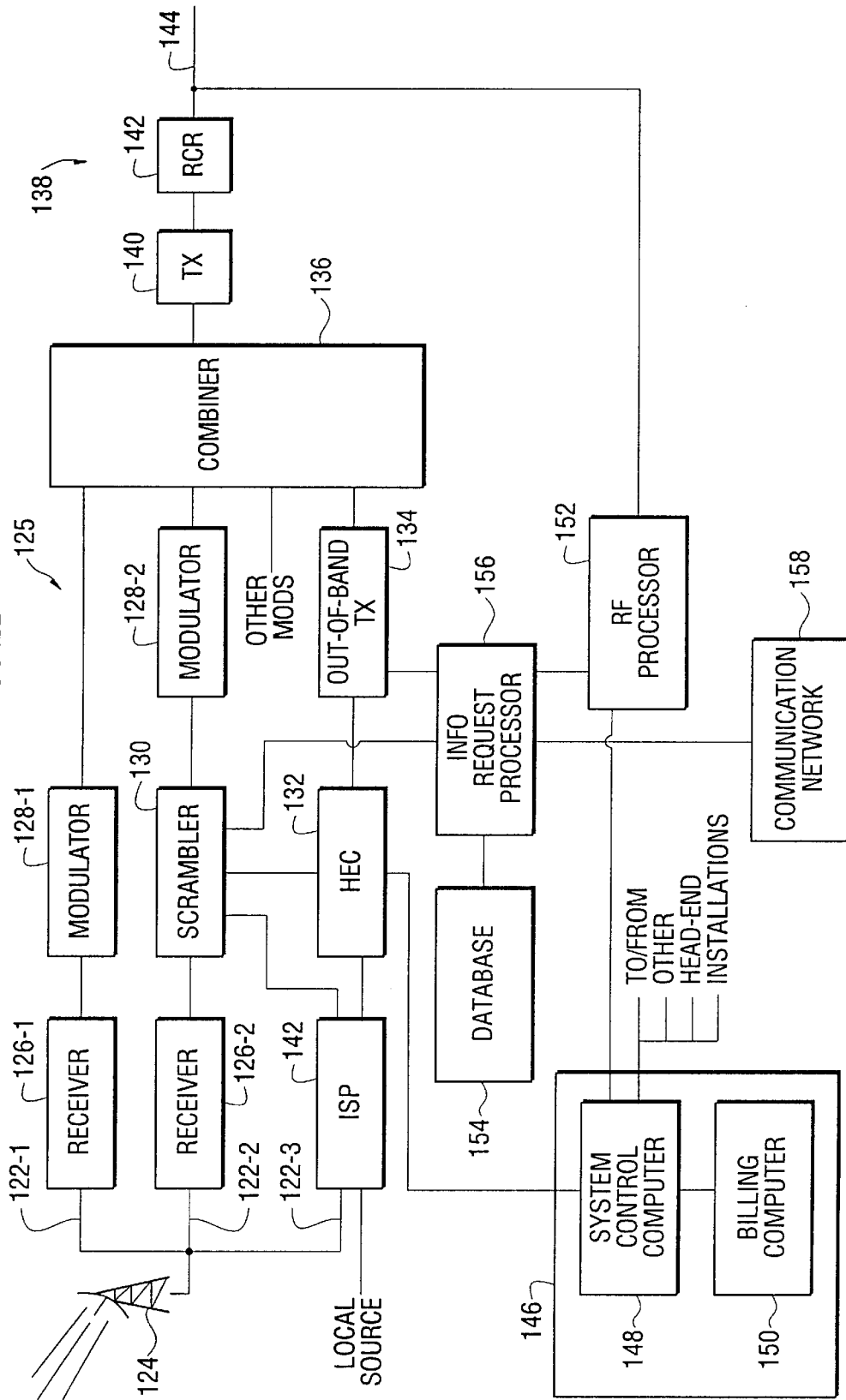
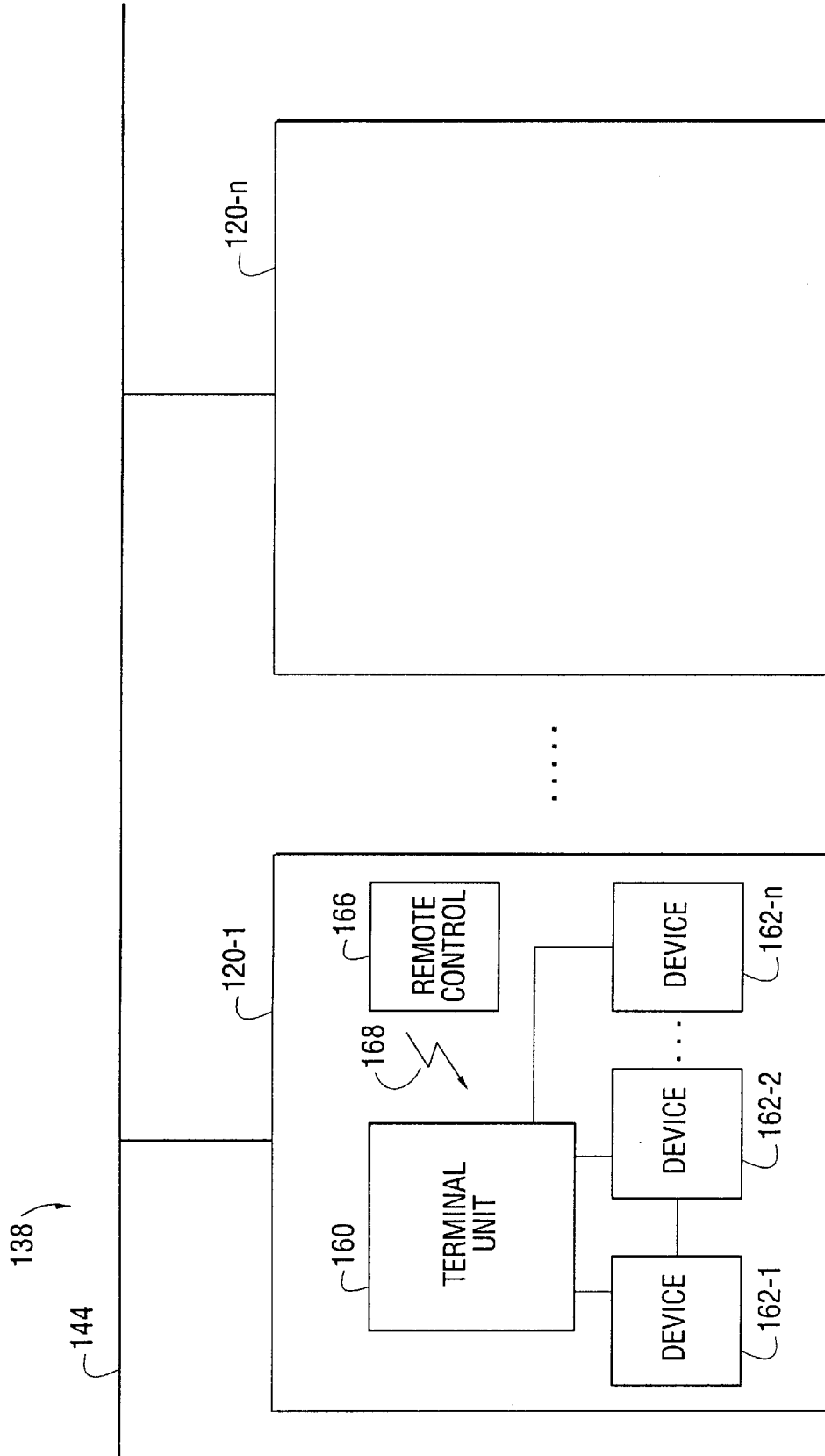


FIG. 2C



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