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

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(54) **TEXT TO GRAMMAR ENHANCEMENTS FOR MEDIA FILES**

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(73) Assignee: **Johnson Controls Technology Company**, Holland, MI (US)

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(65) **Prior Publication Data**

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**Related U.S. Application Data**

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(57) **ABSTRACT**

(51) **Int. Cl.**  
**G06F 17/30** (2006.01)  
**G10L 13/02** (2006.01)  
**G10L 13/08** (2006.01)

A control system in a vehicle for extracting meta data from a digital media storage device over a communication link. The system includes a communication module for establishing a communication link with the digital media storage device. The system also includes a processing module coupled to the communication module. The processing module is configured to retrieve, via the communication module, meta data associated with a media file from the digital media storage device. The meta data includes a plurality of entries, wherein at least one of the plurality of entries includes text data. The processing module is also configured to compare the text data of the entries with a set of data files stored in a database. The system also includes a memory module configured to store the plurality of entries retrieved from the digital media storage device.

(52) **U.S. Cl.** ..... **707/755; 704/258; 704/275; 701/36**

(58) **Field of Classification Search** ..... **707/1, 707/755; 709/219; 704/277, 1, 273, 275; 704/257, 258, 249; 705/14; 701/1, 29, 202; 434/167; 455/3.05, 574**

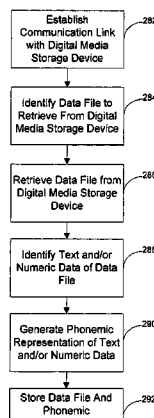
See application file for complete search history.

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**20 Claims, 8 Drawing Sheets**



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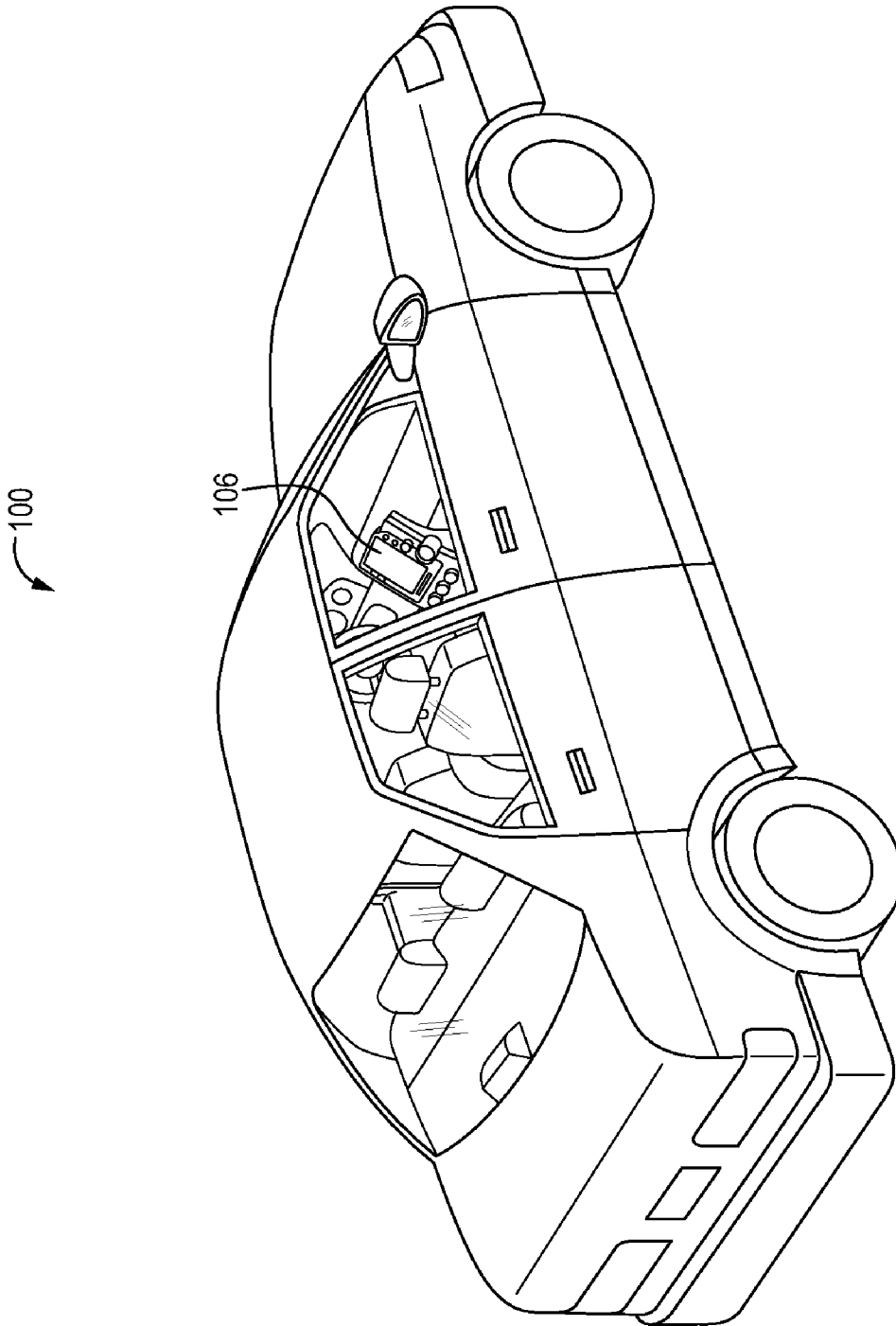


FIG. 1

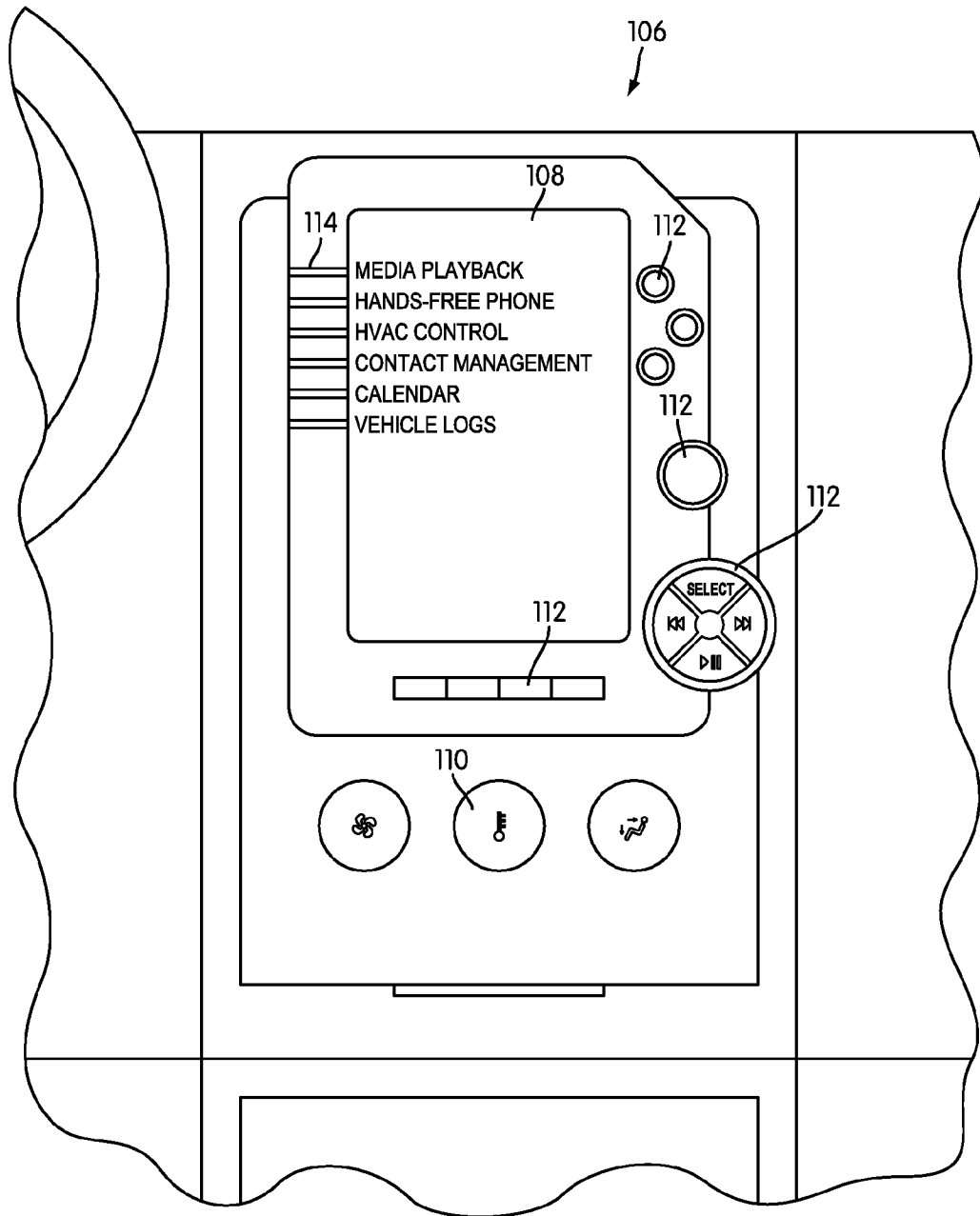


FIG. 2

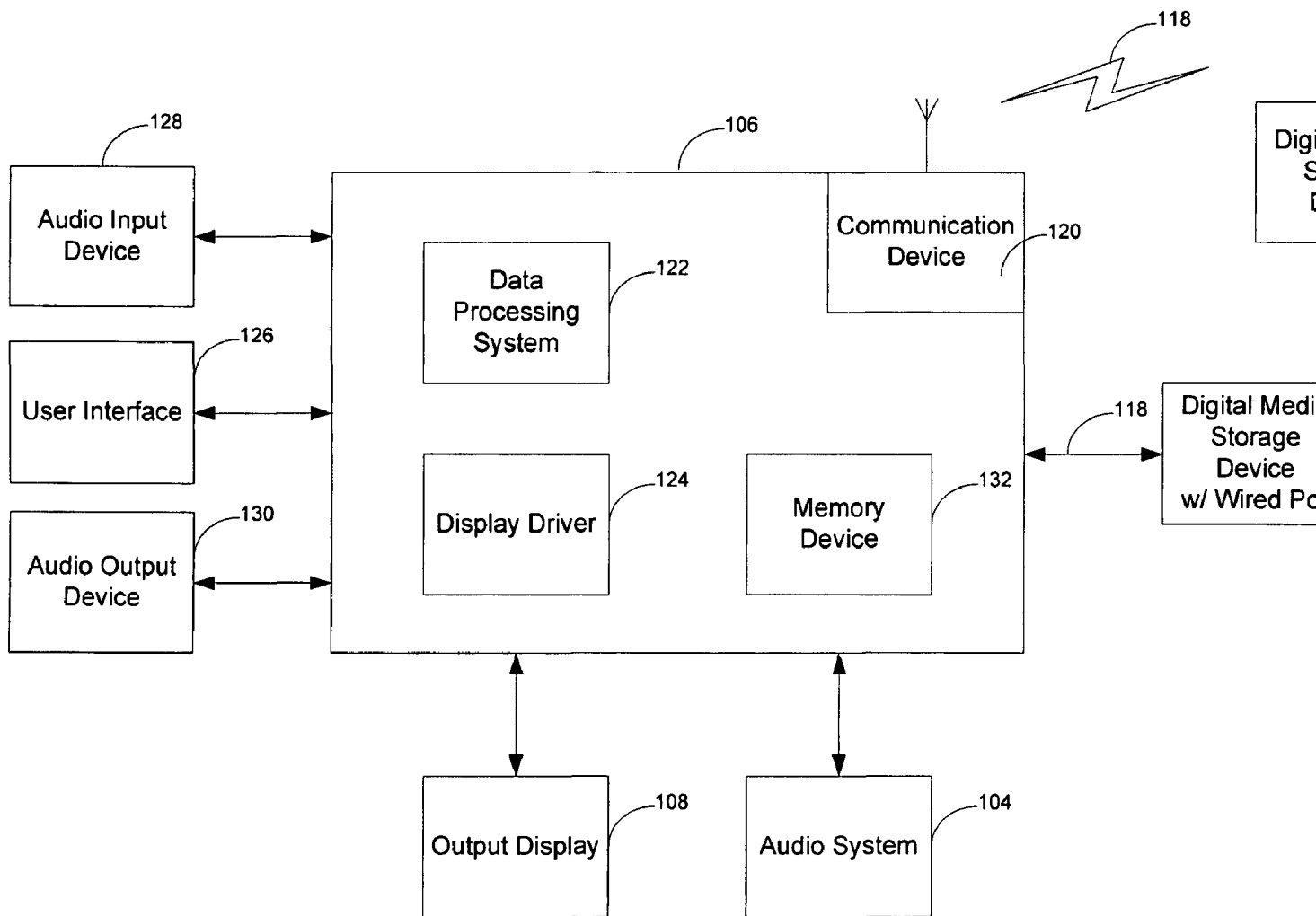


FIG. 3

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