

Petitioner Volkswagen Group of America, Inc.

Oral Hearing

Inter Partes Review of

U.S. Patent No. 8,781,839

IPR2016-00177

Patent Trial and Appeal Board

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Volkswagen Group of America, Inc., Petitioner
West View Research, LLC. - Patent Owner
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U.S. Patent No. 8,781,839

Title: Computerized Information and Display Apparatus

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Robert Gazdzinski



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(54) **COMPUTERIZED INFORMATION AND DISPLAY APPARATUS**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 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.**
G10L 15/00 (2013.01)

(52) **U.S. Cl.**
USPC 704/270; 704/275; 369/30.01

(58) **Field of Classification Search**
USPC 704/270, 275; 369/30.01
See application file for complete search history.

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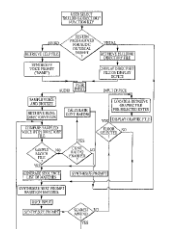
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(57) **ABSTRACT**

Computerized apparatus useful for obtaining and displaying information. In one embodiment, the computerized apparatus includes a network interface, display device, and speech recognition apparatus configured to receive user speech input and enable performance of various tasks, such as obtaining desired information relating to indoor entities, maps or directions, or any number of other topics. The downloaded data may also, in one variant, be displayed with contextually related advertising or other content.

47 Claims, 24 Drawing Sheets



VWGoA - Ex. 1001
Volkswagen Group of America, Inc., Petitioner
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The '839 patent describes an interactive display in an elevator that is responsive to verbal commands. Ex. 1001, 7:5-27.

Signals captured by microphone 118 as part of speech recognition module 104 are digitized by analog to digital converter 141 and processed using a speech recognition algorithm to produce digital representations of the user's speech. Ex. 1001 at 7:59-63.

The digital representations are compared to a speech library to identify known words and the desired functionality is implemented. *Id.* at 7:63-8:2; Ex. 1002 at ¶ 3.

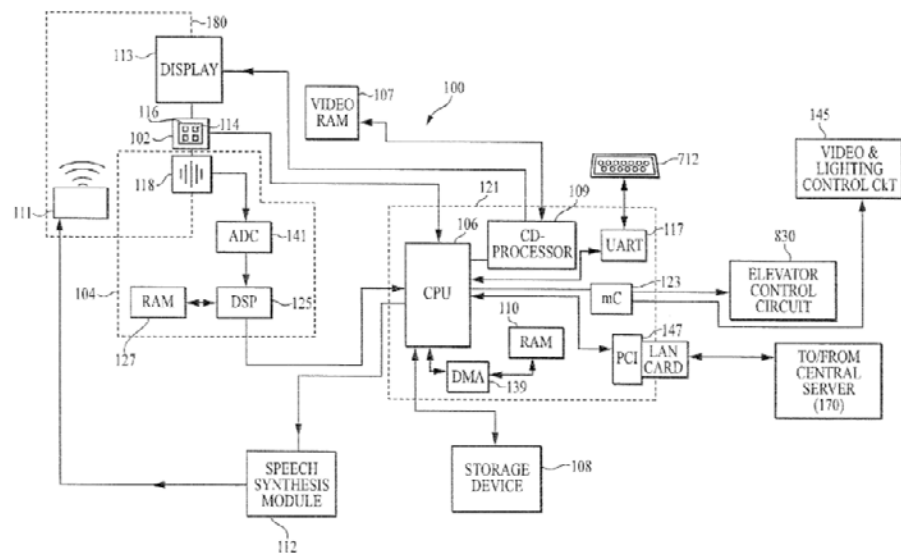


FIG. 1

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A touch screen display 113, as shown in Fig. 2, generates messages or display formats based on the user's input and query. *See* Ex. 1001 at 8:45-47.

The user can speak the specific name of the party they wish to find, the speech recognition module 104 converts the detected speech to a digital format, and the digitized speech is compared to the contents of a directory file to find any matches. Ex. 1001 at 10:9-19.

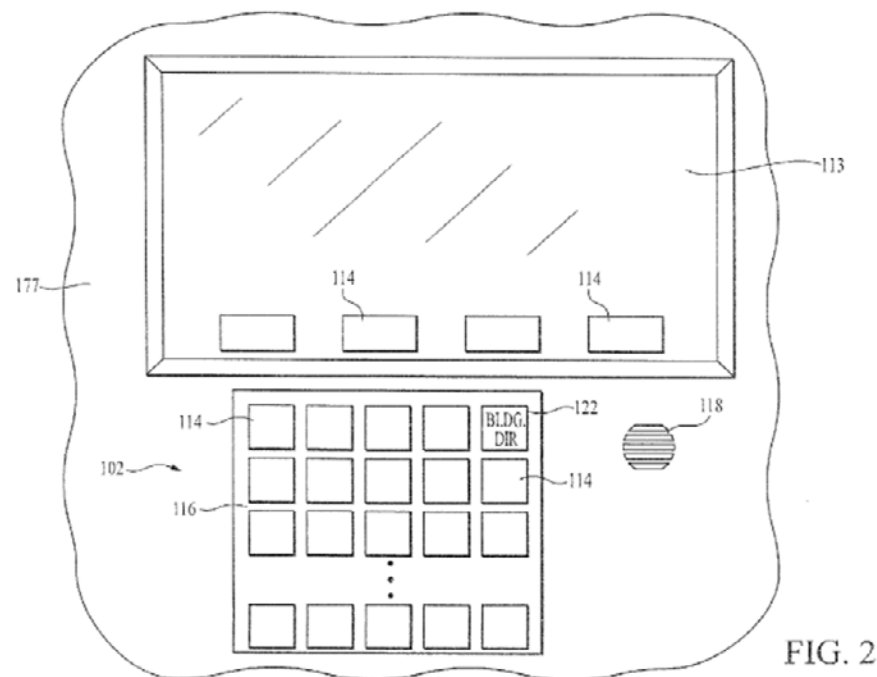


FIG. 2

Claim 1



1. Computerized apparatus useful for locating an organization or entity, the organization or entity being disposed within a building or structure, the apparatus comprising:

- a wireless interface;
- data processing apparatus;
- a touch-screen input and display device;
- a speech digitization apparatus in data communication with the data processing apparatus; and
- a storage apparatus in data communication with the data processing apparatus, said storage apparatus comprising at least one computer program, said at least one program being configured to:
 - receive a digitized speech input via the speech digitization apparatus, the input relating to an organization or entity which a user wishes to locate;
 - based at least in part on the input, causing recognition of at least one word therein relating to the organization or entity, and identification of a location associated with the organization or entity based at least in part on the at least one recognized word, the location being inside of the building or structure; and
 - provide a graphical or visual representation of the location on the touch screen input and display device in order to aid a user in finding the organization or entity, the graphical or visual representation of the location also comprising a graphical or visual representation of at least the immediate surroundings of the organization or entity, the immediate surroundings being inside the building or structure.

'839 Patent (Ex. 1001)

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