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Petitioner Volkswagen Group of America, Inc.

Oral Hearing

Inter Partes Review of

U.S. Patent No. 8,719,038

IPR2016-00146

Patent Trial and Appeal Board

United States Patent and Trademark Office

February 7, 2017

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U.S. Patent No. 8,719,038

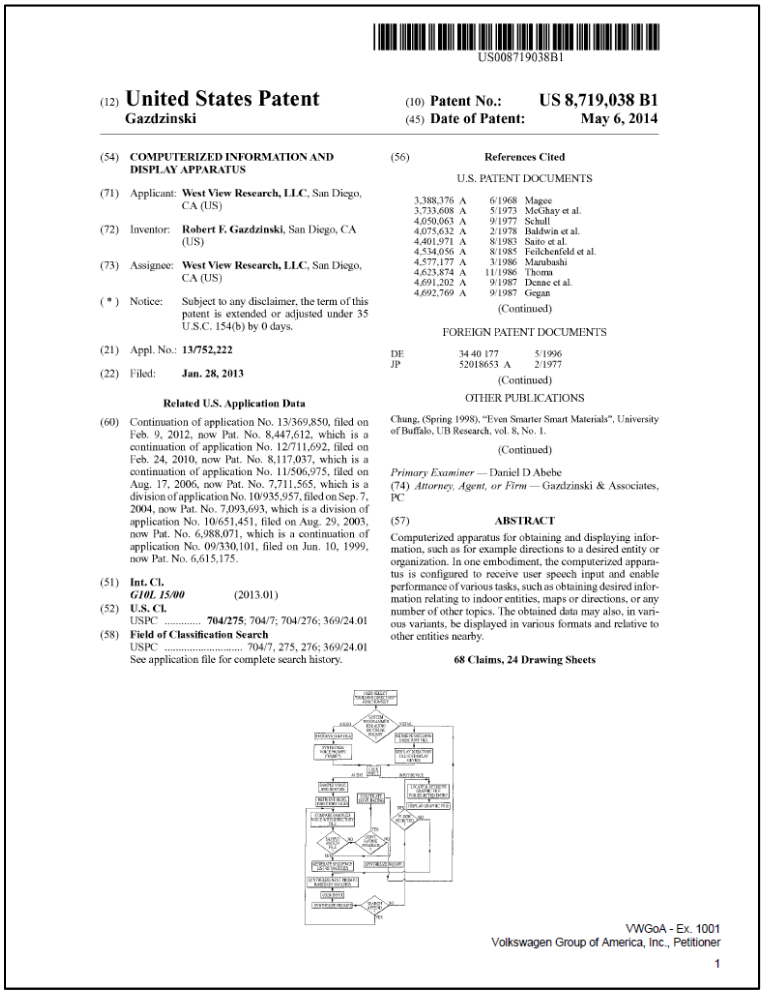
Title: Computerized Information and Display Apparatus

Filed: January 28, 2013

Issued: May 6, 2014

Named Inventor:

Robert Gazdzinski



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(12) **United States Patent**
Gazdzinski

(10) **Patent No.: US 8,719,038 B1**
(45) **Date of Patent: May 6, 2014**

(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.

(21) Appl. No.: **13/752,222**

(22) Filed: **Jan. 28, 2013**

Related U.S. Application Data

(60) Continuation of application No. 13/369,850, filed on Feb. 9, 2012, now Pat. No. 8,447,612, which is a continuation of application No. 12/711,692, filed on Feb. 24, 2010, now Pat. No. 8,117,037, which is a continuation of application No. 11/506,975, filed on Aug. 17, 2006, now Pat. No. 7,711,565, which is a division of application No. 10/935,957, filed on Sep. 7, 2004, now Pat. No. 7,093,693, which is a division of application No. 10/651,451, filed on Aug. 29, 2003, now Pat. No. 6,988,071, which is a continuation of application No. 09/330,101, filed on Jun. 10, 1999, now Pat. No. 6,615,175.

(51) **Int. Cl.**
G10L 15/00 (2013.01)

(52) **U.S. Cl.**
USPC **704/275**; 704/7; 704/276; 369/24.01

(58) **Field of Classification Search**
USPC 704/7, 275, 276; 369/24.01
See application file for complete search history.

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(57) **ABSTRACT**

Computerized apparatus for obtaining and displaying information, such as for example directions to a desired entity or organization. In one embodiment, the computerized apparatus is 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 obtained data may also, in various variants, be displayed in various formats and relative to other entities nearby.

68 Claims, 24 Drawing Sheets

VWGoA - Ex. 1001
Volkswagen Group of America, Inc., Petitioner
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U.S. Patent No. 8,719,038

The ’038 patent describes an elevator information system that allows a user to verbally initiate a query of a database. Ex. 1001, 7:4-25; Andrews Decl. (Ex. 1002), ¶ 3.

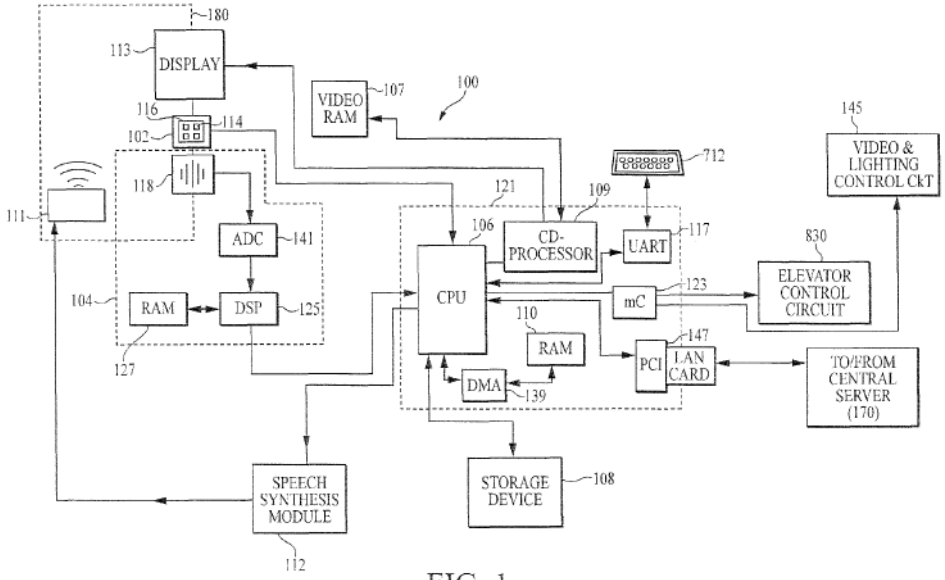

FIG. 1

With reference to Fig.1, 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. Ex. 1001 at 7:26-27, 7:57-60; Ex. 1002 at ¶ 3.

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A touch screen display 113, as shown in Fig. 2, generates a variety of different messages or display formats based on the user's input and query. Ex. 1001, 8:43-45.

The user can speak the specific name of the party they wish to find, and the digitized speech is compared to the contents of a directory file to find any matches. *Id.* at 10:7-16.

Any matching fields within the entries of the directory file are provided to the user, either audibly via a speech synthesis module 112 and speaker 111, or visually via display 113. *Id.* at 10:16-19.

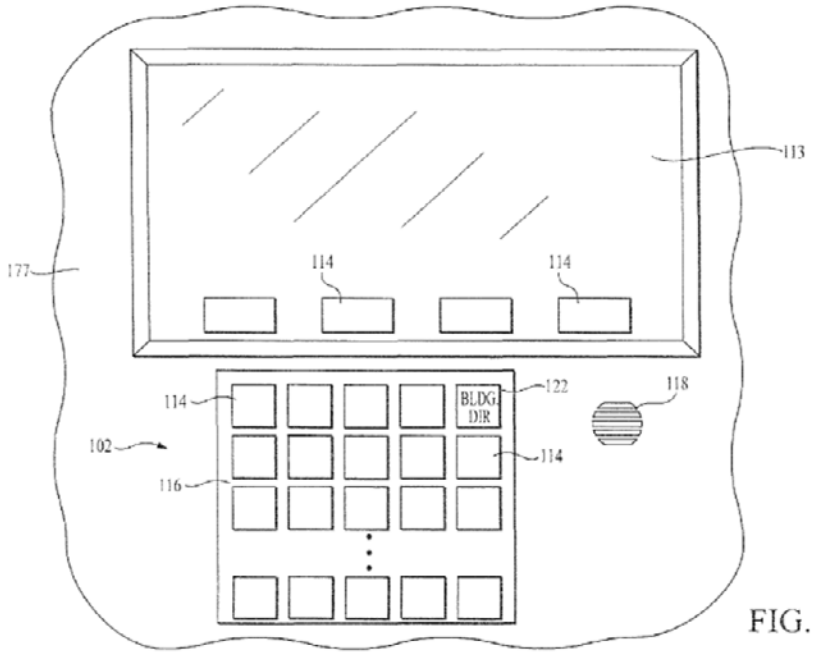

FIG. 2

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Claim 1

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1. Computer readable apparatus configured to aid a user in locating an organization or entity, the apparatus comprising a storage medium having a computer program configured to run on a processor, the program configured to, when executed on the processor:

obtain a representation of a first speech input from the user, the first speech input relating to a name of a desired organization or entity;

cause use of at least a speech recognition algorithm to process the representation to identify at least one word or phrase therein;

use at least the identified at least one word or phrase to identify a plurality of possible matches for the name;

cause the user to be prompted to enter a subsequent input in order to aid in identification of one of the plurality of possible matches which best correlates to the desired organization or entity;

receive data relating to the subsequent user input;

based at least in part on the data, determine which of the plurality of possible matches is the one that best correlates;

determine a location associated with the one of the possible matches that best correlates; and

select and cause presentation of a visual representation of the location, as well as at least an immediate surroundings thereof, on a display viewable by the user, the visual representation further comprising visual representations of one or more other organizations or entities proximate to the location.

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