

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Darrell Diem

Art Unit: 2684

Application No: 14/629,347

Examiner: Curtis J King

Confirmation No: 8284

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Atty. Docket No: 1114-0004001

Customer No: 124657

For: A LOCATION TRACKING SYSTEM CONVEYING
EVENT INFORMATION BASED ON
ADMINISTRATOR AUTHORIZATIONS

PATENT TRADEMARK OFFICE

RESPONSE TO FINAL OFFICE ACTION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INTRODUCTORY COMMENTS

In response to the Office Action dated **February 8, 2017**, please amend the above-identified U.S. patent application as follows:

Claims are reflected in the listing of claims, which begins on page 2 of this paper.

Remarks/Arguments begin on page 9 of this paper.

CLAIMS

1. (Cancelled)

2. (Currently Amended) A location tracking system comprising:

one or more servers capable of receiving identifiers and location information for a plurality of mobile devices having corresponding mobile device identification codes that identify each mobile device;

the one or more servers configured to:

store in one or more databases information for groups of users of mobile devices based on corresponding group identification codes that identify each group, each user in a group having a user identification code associated with a corresponding group identification code in the one or more databases, the user identification code identifying the user, said groups being defined by a first administrator having a first level of administrative privilege, said first level of administrative privilege being used to authorize a user in each group to be a second administrator of a plurality of second administrators, each second administrator having a corresponding second level of administrative privilege associated with a group;

store in the one or more databases information for the plurality of second administrators, each second administrator using a the corresponding second level of administrative privilege after a corresponding group is defined by the first administrator to specify one or more information access codes, said one or more information access codes specifying one or more users in the corresponding group having access 1) to location information and 2) to event information other than location information, wherein a the location information corresponds to a coordinate of a mobile device within a coordinate system corresponding to a map as determined by a the location information source associated with the mobile device; and wherein a the event information comprises at least one of a condition that relates a mobile device location information to a zone where the occurrence of the event causes an

alert to be sent when a mobile device crosses a boundary associated with the zone, wherein the first administrator defines the corresponding group independent of a location of a zone;

control access to the location information and the event information in order to protect the privacy of the location information and the event information based on the ~~on~~ one or more information access codes;

check the first level of administrative privilege to authorize a the second administrator having a second level of administrative privilege to be associated with the group;

check the second level of administrative privilege to control conveyance of the location and the event information regarding the group using the one or more information access codes;

provide one or more interfaces configured to receive information related to a zone, an event, and an alert for the group;

receive a request to set a zone for the group, the zone having a boundary that is independent of where mobile devices are located;

receive a request to set an event for the group;

receive a request to set an alert for the group, the request identifying a recipient of the alert;

store the group's zone, event and alert in the one or more databases;

receive identifiers and the location information for mobile devices in the group;

compare the identifiers and location information with the group's zone and event to determine whether to send the group's alert;

cause the group's alert to be sent; and

convey the location information based on the one or more information access codes specified for the group under said second level of administrative privilege.

3. (Previously Presented) The system of claim 2, the one or more servers configured to:

receive information corresponding to a second zone and a second event associated with a mobile object other than the mobile devices;

receive a request to set the second zone for the group;

receive a request to set the second event for the group;

store the group's second zone and second event in the one or more databases; and

compare the location information for the mobile object with the second zone and the second event to determine whether to send an alert associated with the second zone and the second event.

4. (Previously Presented) The system of claim 2, where an information access code specified for the group comprises a group identification code.

5. (Currently Amended) The system of claim 4, where ~~an~~ the information access code specified for the group comprises an access list including one or more user identification codes associated with the group identification code.

6. (Currently Amended) The system of claim ~~4~~5, where said access list further comprises a plurality of sub-group identification codes, said sub-group identification codes identifying corresponding sub-groups created within the group.
7. (Currently Amended) The system of claim ~~4~~6, where the one or more servers control access to the one or more user interfaces for adding a mobile device to a sub-group based on the sub-group identification code, wherein said second level of administrative privilege comprises a privilege to create the sub-group, specify the sub-group identification code, and specify the users in the sub-group.
8. (Previously Presented) The system of claim 2, where said first level of administrative privilege is associated with an location and event (L&E) information service provider and said second level of administrative privileges are provided by the L&E information service provider to customers of the L&E information service, said mobile device identifications codes being associated with vehicles in a plurality of vehicle groups under the second level of the administrative privileges, wherein each vehicle group comprises vehicles used by drivers associated with corresponding mobile object identification codes under the second level of the administrative privileges, said mobile object identification codes being different from the mobile device identification codes, each mobile object identification code being associated with a mobile object comprising an NFC device, wherein a second event associated with the mobile object that is different from the event is determined based on proximity of the driver to the vehicle as determined using the NFC device.
9. (Previously presented) The system of claim 2, where the one or more servers are further configured to:

determine occurrence of a second event that is different from the event, said second event being based on a condition associated with one or more mobile objects other the one or more

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