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(12) **United States Patent**
Fino

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(54) **ROUTING BASED ON DETECTED STOPS**

40/612; 362/503; 187/387; 180/65.25;
903/916

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See application file for complete search history.

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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.

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(52) **U.S. Cl.**

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USPC **701/117**; 701/1; 701/70; 701/301; 701/468; 701/532; 340/993

(57) **ABSTRACT**

In some implementations, a mobile device can transmit traffic information to a server for analysis. The traffic information can include movement information including detected stops and durations of detected stops. The traffic information can be analyzed to detect traffic patterns that indicate locations of stop signs and/or stop lights. The traffic information can be analyzed to determine durations of stops at stop signs and/or stop lights. The durations of stops can be associated with a time of day and/or day of the week. In some implementations, navigational routes can be determined based stop sign and/or stop light information, including the delays attributable to detected stop signs and/or stop lights.

(58) **Field of Classification Search**

CPC G08G 1/096811; G08G 1/096827; G08G 1/096844; G08G 1/096888; G06Q 50/06
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21 Claims, 9 Drawing Sheets

