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

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(54) **LOCATION-BASED IN-ROUTE ENTERTAINMENT AND INFORMATION**

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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 82 days.

(Continued)

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(22) Filed: **Mar. 5, 2012**

(65) **Prior Publication Data**

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**Related U.S. Application Data**

(60) Provisional application No. 61/451,097, filed on Mar. 9, 2011.

(57) **ABSTRACT**

(51) **Int. Cl.**  
**G01C 21/26** (2006.01)

Techniques are described herein for generating a moving map that includes a graphical representation of a vehicle, such as an airplane, and content relevant to a location of the vehicle as the vehicle is in transit. An in-route entertainment server that serves the moving map may be onboard the vehicle or off-board the vehicle. The moving map may display the current location of the vehicle displayed by modifying a delayed location of the vehicle to account for a speed, a heading, and an amount of delay. Content items may be included on the moving map if they are within a bounded region around the location of the vehicle or in the vehicle. Content items may also be included if they are associated with a region that overlaps the bounded region. The bounded region changes as the vehicle moves in transit.

(52) **U.S. Cl.**  
USPC ..... **701/409**

(58) **Field of Classification Search**  
USPC ..... 701/400, 409, 422, 425, 428, 454, 1; 705/14.62, 14.63, 14.64; 340/995.12, 340/995.11

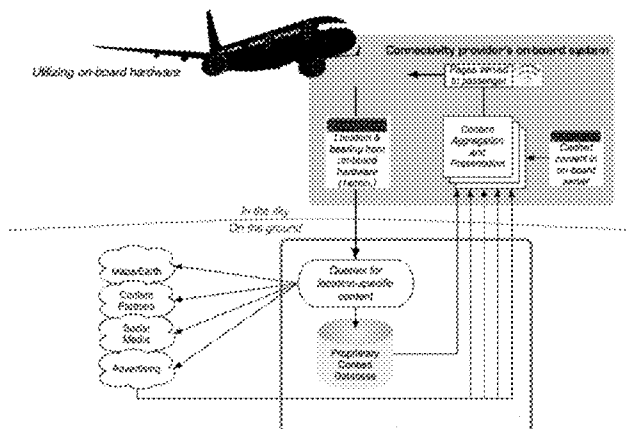
See application file for complete search history.

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**26 Claims, 15 Drawing Sheets**



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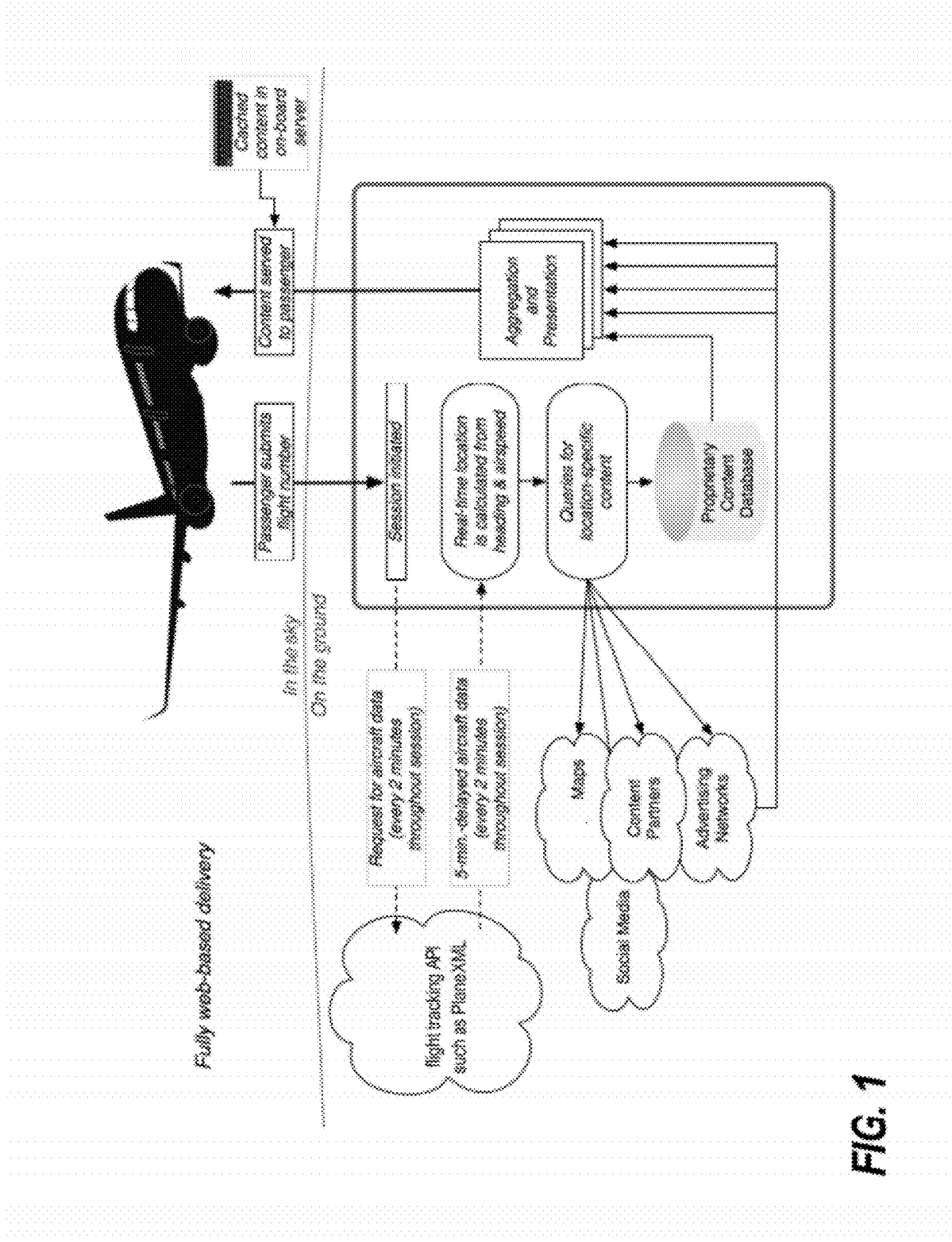


FIG. 1

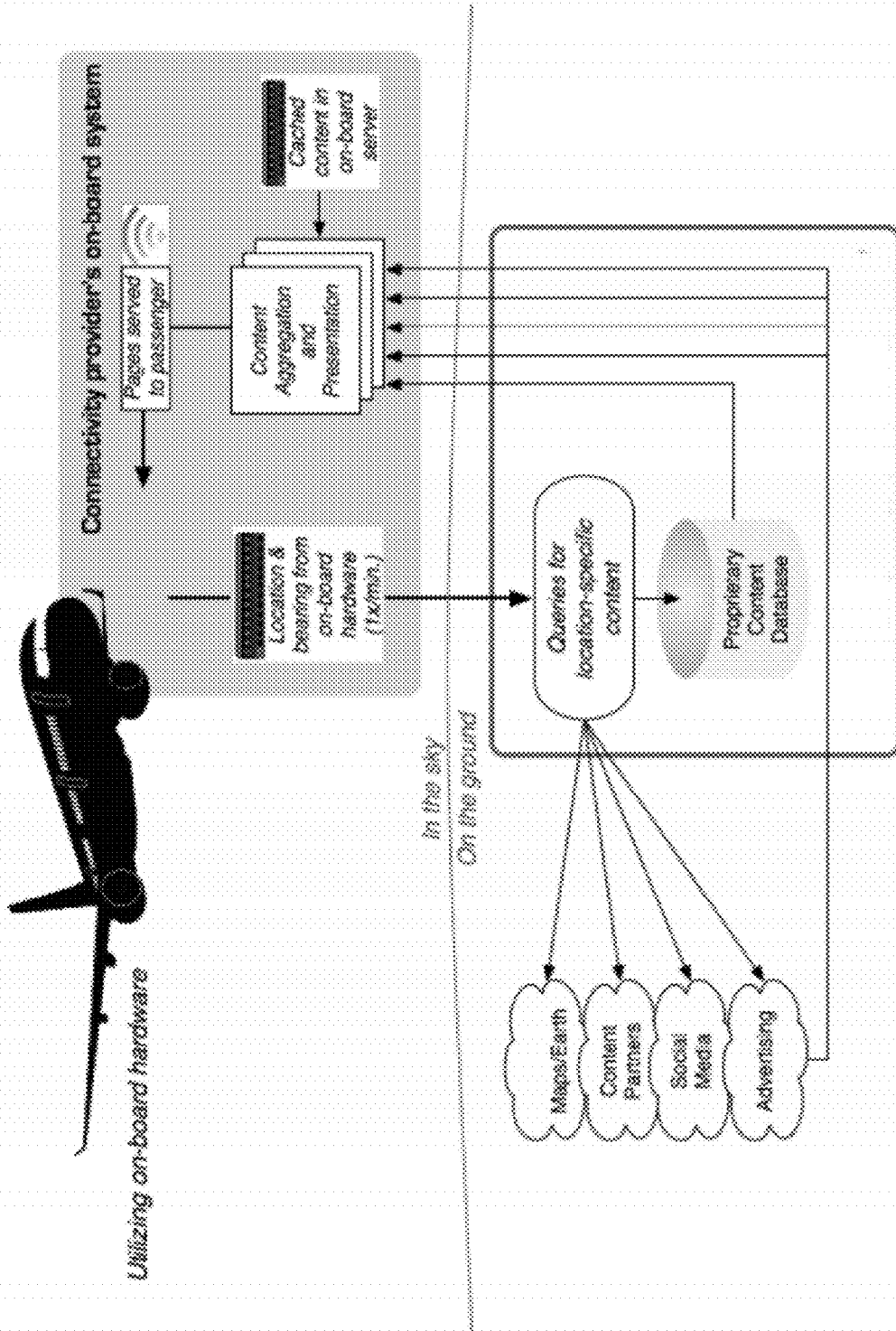


FIG. 2





FIG. 3

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