

US006580916B1

## (12) United States Patent

Weisshaar et al.

(10) Patent No.: US 6,580,916 B1

(45) **Date of Patent: Jun. 17, 2003** 

## (54) SERVICE FRAMEWORK FOR EVALUATING REMOTE SERVICES BASED UPON TRANSPORT CHARACTERISTICS

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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 379 days.

(21) Appl. No.: 09/662,307

(22) Filed: Sep. 15, 2000

(51) **Int. Cl.**<sup>7</sup> ...... **H04M 11/00**; H04B 15/00; H04Q 7/20

456; 342/357.09; 701/207; 379/196, 211, 210; 375/202; 331/25, 16, 17

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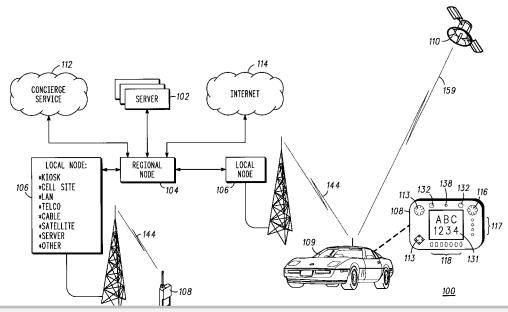
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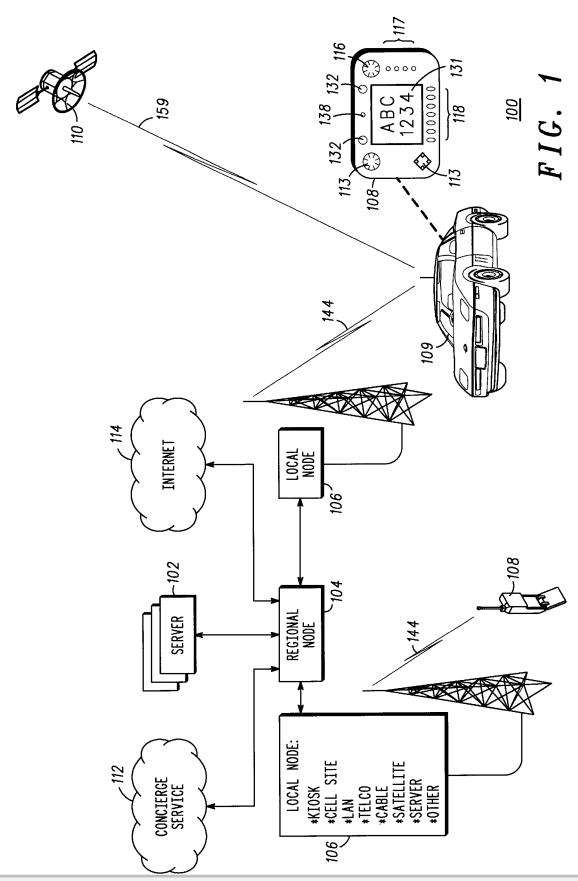
#### (57) ABSTRACT

In an information appliance system 100, a user device 108 comprises a client platform (200, FIG. 5) that includes a service framework (235, FIG. 5) to discover and connect with a variety of services, both remote and local, transient and persistent, and to disconnect from them when they are no longer of interest or become unavailable. The service framework 235 provides a standard, consistent, simplified way for services to make themselves available and for service-using entities to locate and connect with the services of interest to them. The service framework 235 comprises service event notification registries (254, 256, FIG. 7) in which service-requesting entities register templates defining the types of services they want to locate and connect with. However, the service framework 235, rather than connecting with any service that matches a desired service type, can further control a remote service lookup operation in accordance with various transport characteristics in the template, such as signal strength, quantity of data to be transferred, range, available bandwidth, communications cost, service location, time of day, vehicular velocity, and so forth. This conserves the platform's memory and bandwidth resources by not connecting with services that would not satisfy a user's request or that would be unduly transitory. Various methods of operating a service framework are also described.

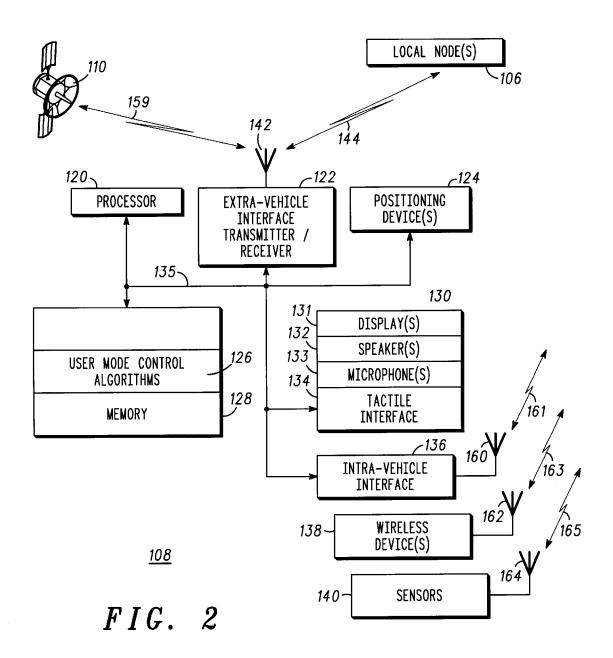
### 12 Claims, 11 Drawing Sheets





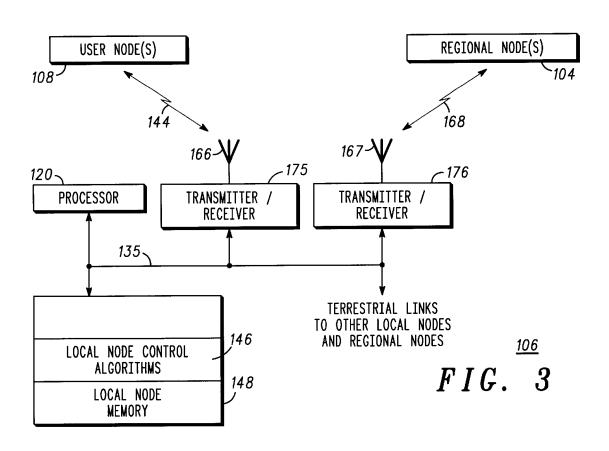


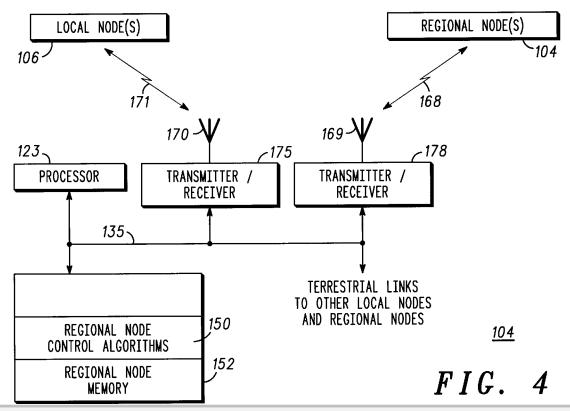




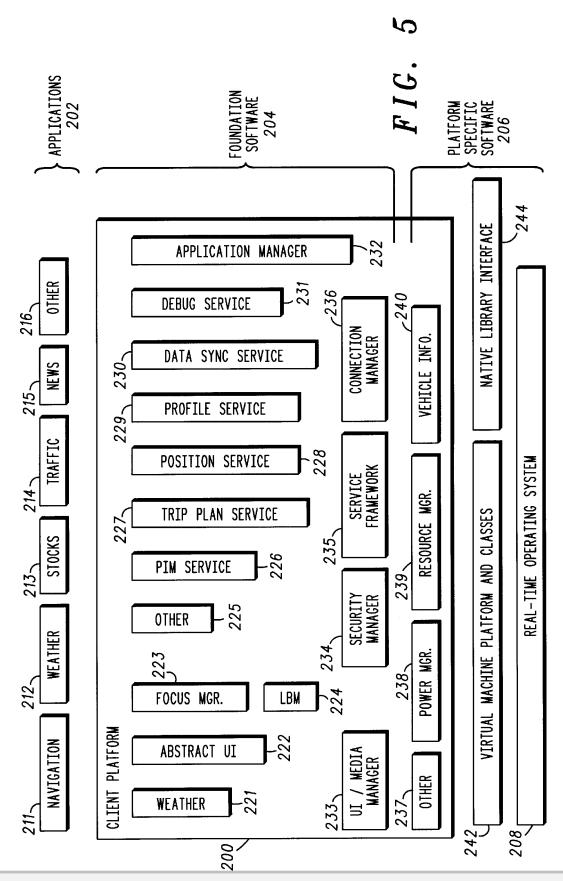


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