



US006799050B1

(12) **United States Patent**
Krasner

(10) **Patent No.:** **US 6,799,050 B1**
(45) **Date of Patent:** **Sep. 28, 2004**

(54) **REDUCING CROSS-INTERFERENCE IN A COMBINED GPS RECEIVER AND COMMUNICATION SYSTEM**

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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 557 days.

(21) Appl. No.: **09/874,747**

(22) Filed: **Jun. 4, 2001**

(51) Int. Cl.⁷ **H04Q 7/20**

(52) U.S. Cl. **455/456.1**; 455/456.6; 455/552.1; 455/550.1; 455/296; 342/357.06; 342/357.1; 342/357.12

(58) **Field of Search** 455/456.1, 456.6, 455/63.1, 552.1, 553.1, 550.1, 296; 342/357.06, 357.1, 357.12

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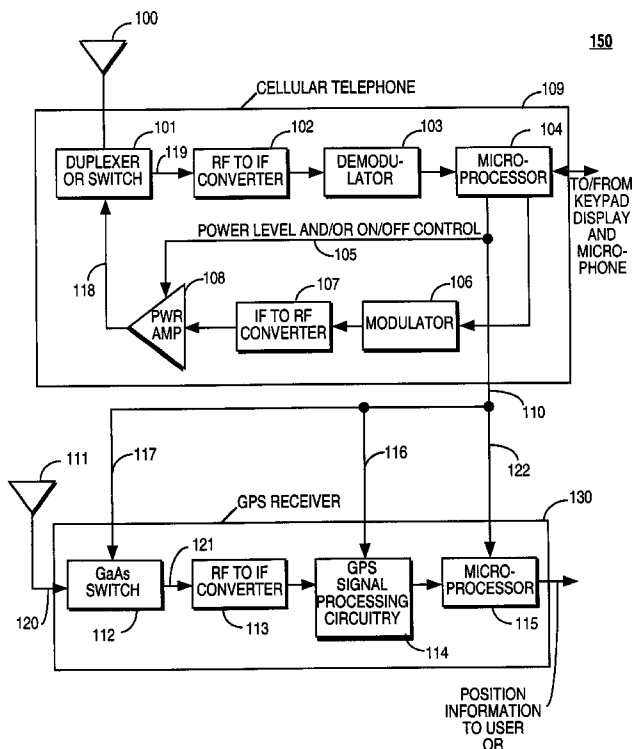
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(57) **ABSTRACT**

A method of operating a mobile device is disclosed. A first activity of the mobile device is detected. The following two operations are executed upon detection of the first activity: (i) wireless transmission of data over a wireless data link from a communication unit of the mobile device is disabled for a period of time, and (ii) a first control signal is transmitted from a communication unit to a satellite positioning system receiver of the mobile device, the first control signal enabling processing of signal positioning system signals received by the receiver during this period of time. The size of this period of time may be predetermined or adaptable.

18 Claims, 6 Drawing Sheets



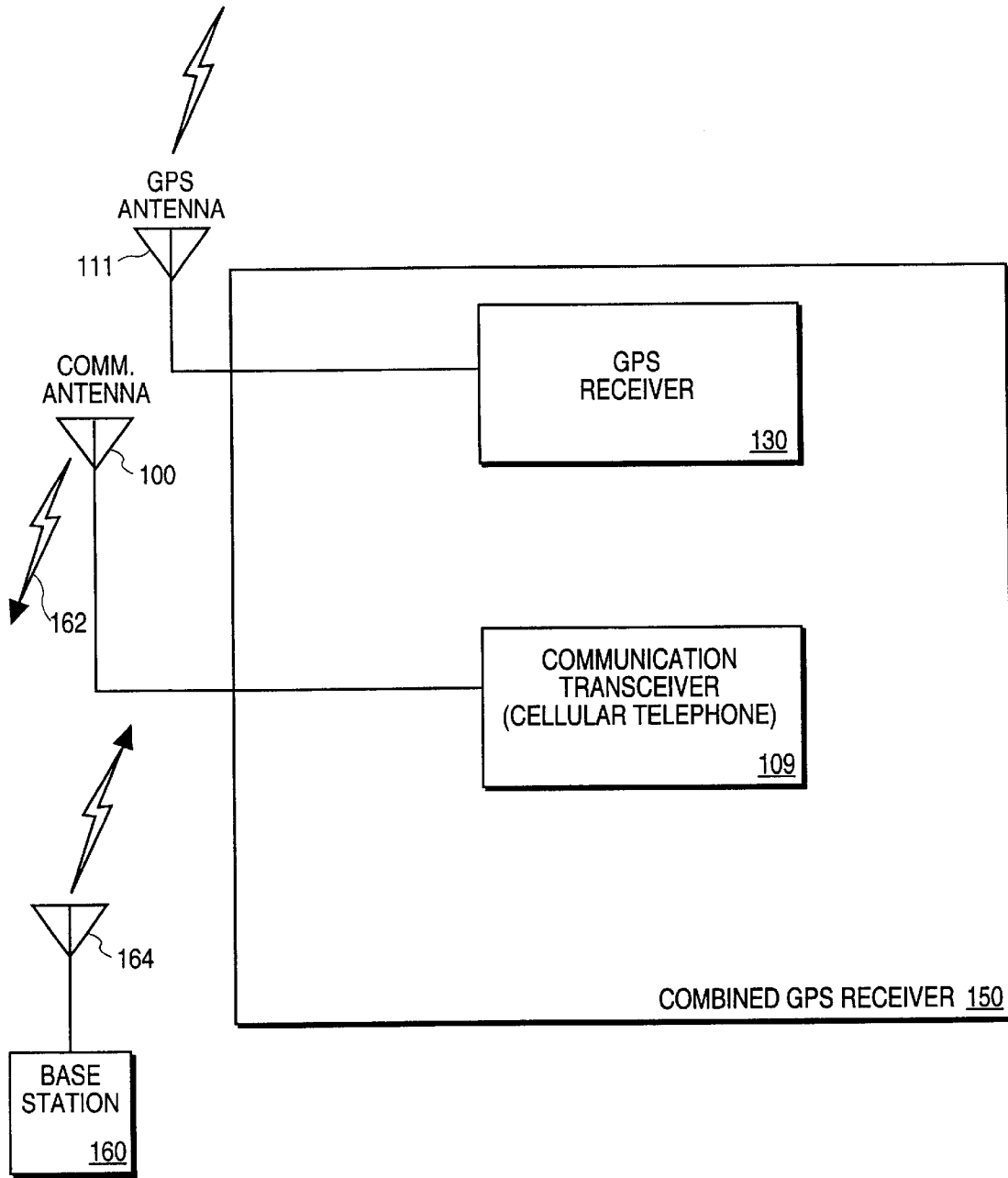


FIG. 1

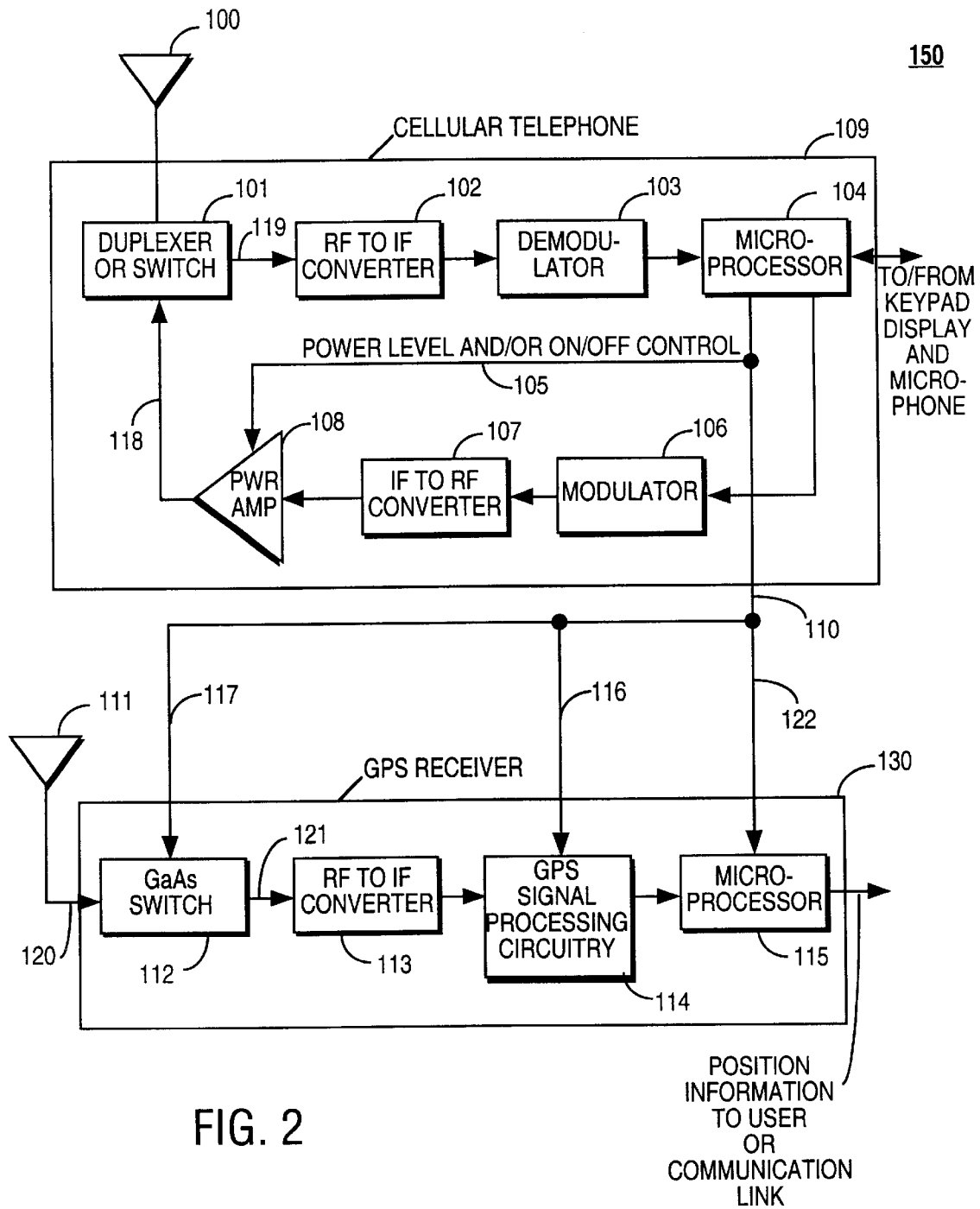


FIG. 2

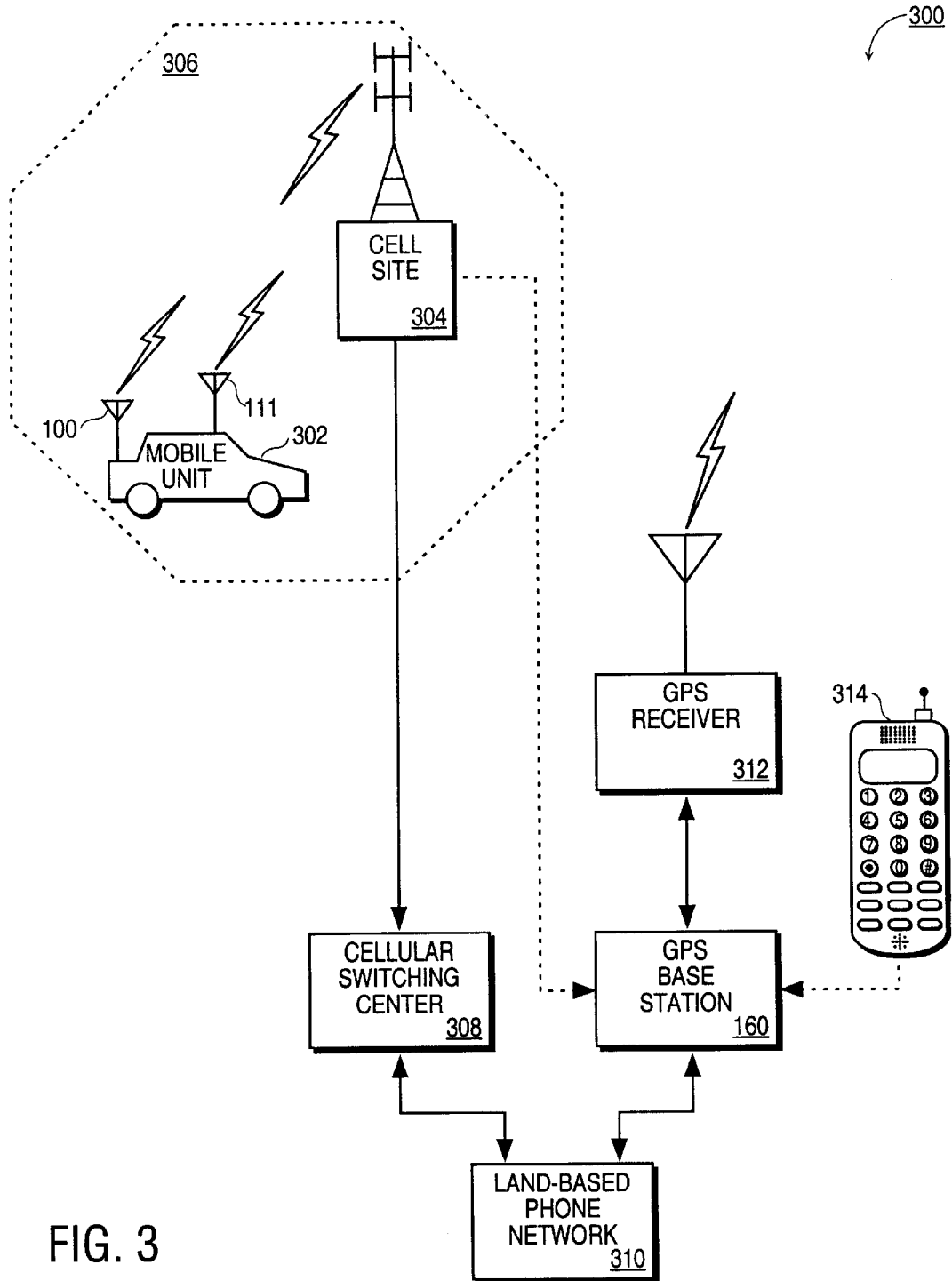


FIG. 3

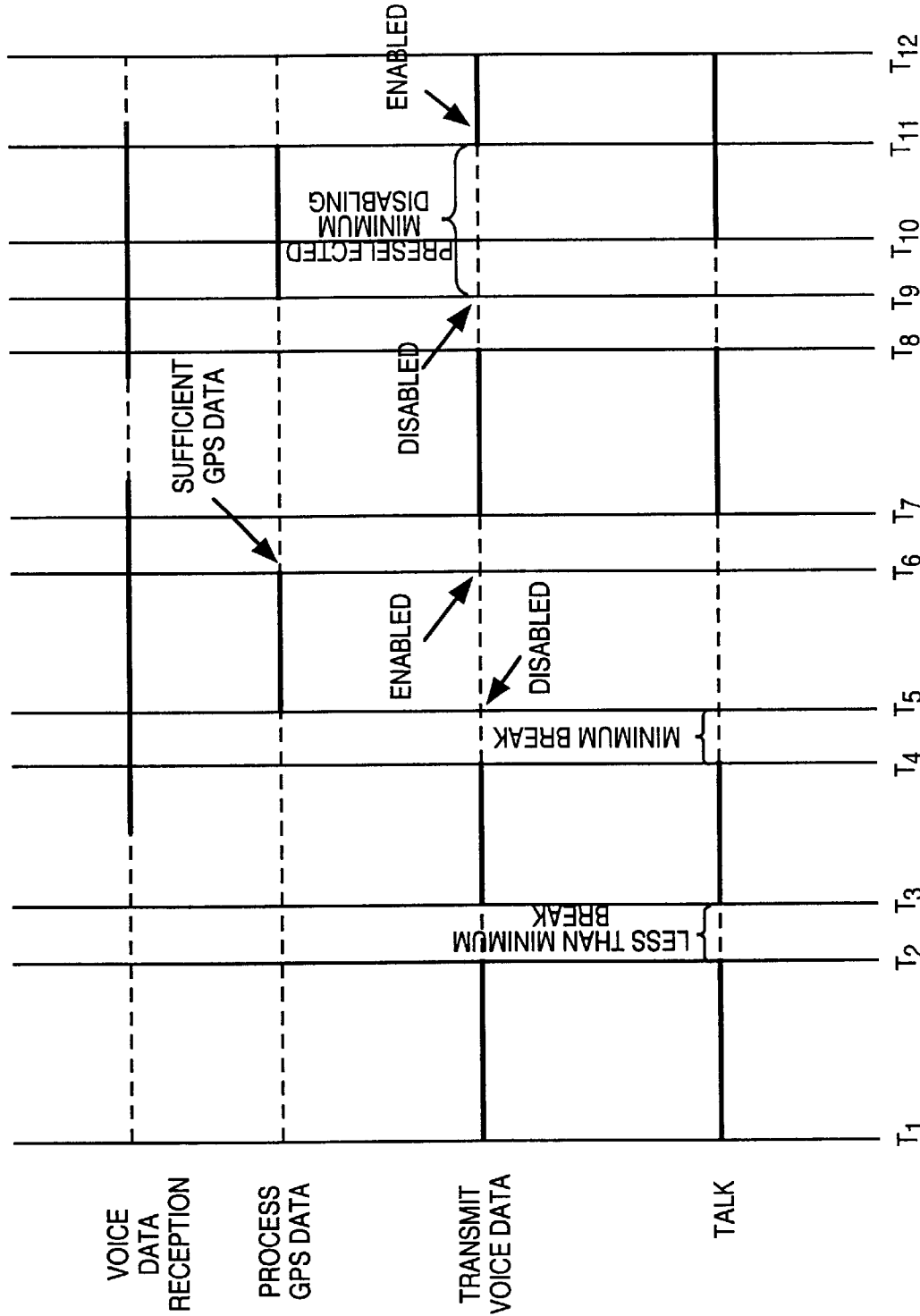


FIG. 4

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