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Steer

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(54) **LOCATION BASED POWER CONTROL FOR MOBILE COMMUNICATIONS SYSTEMS**

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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 755 days.

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(52) U.S. Cl. **455/522**; 455/69; 455/456.1; 370/318

(58) Field of Search 455/522, 456.1, 455/457, 63, 68, 70, 422, 69; 370/317, 318

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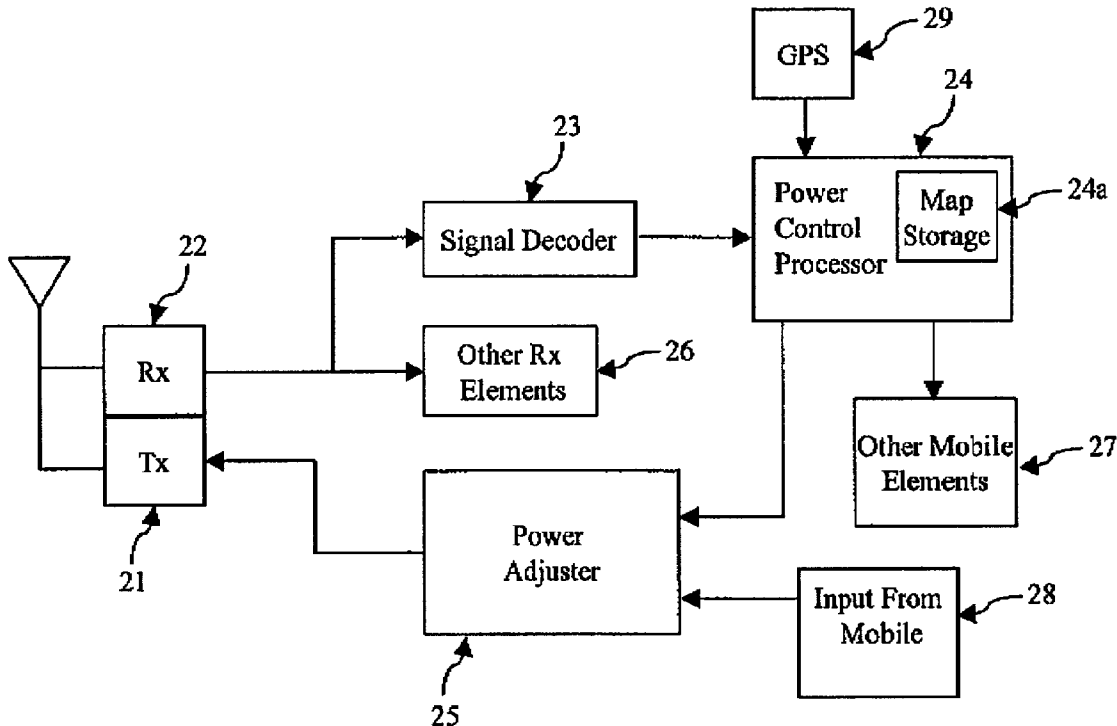
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(57) **ABSTRACT**

A method and apparatus for facilitating power control within mobile radio systems. The power control is a function of location of the mobile station. Power levels are mapped to a geographic grid and power levels are set based upon such pre-determined power levels. Alternatively, initial power levels are set based upon the mapped power levels, but are subject to fine tuning through a much reduced feedback loop.

3 Claims, 5 Drawing Sheets



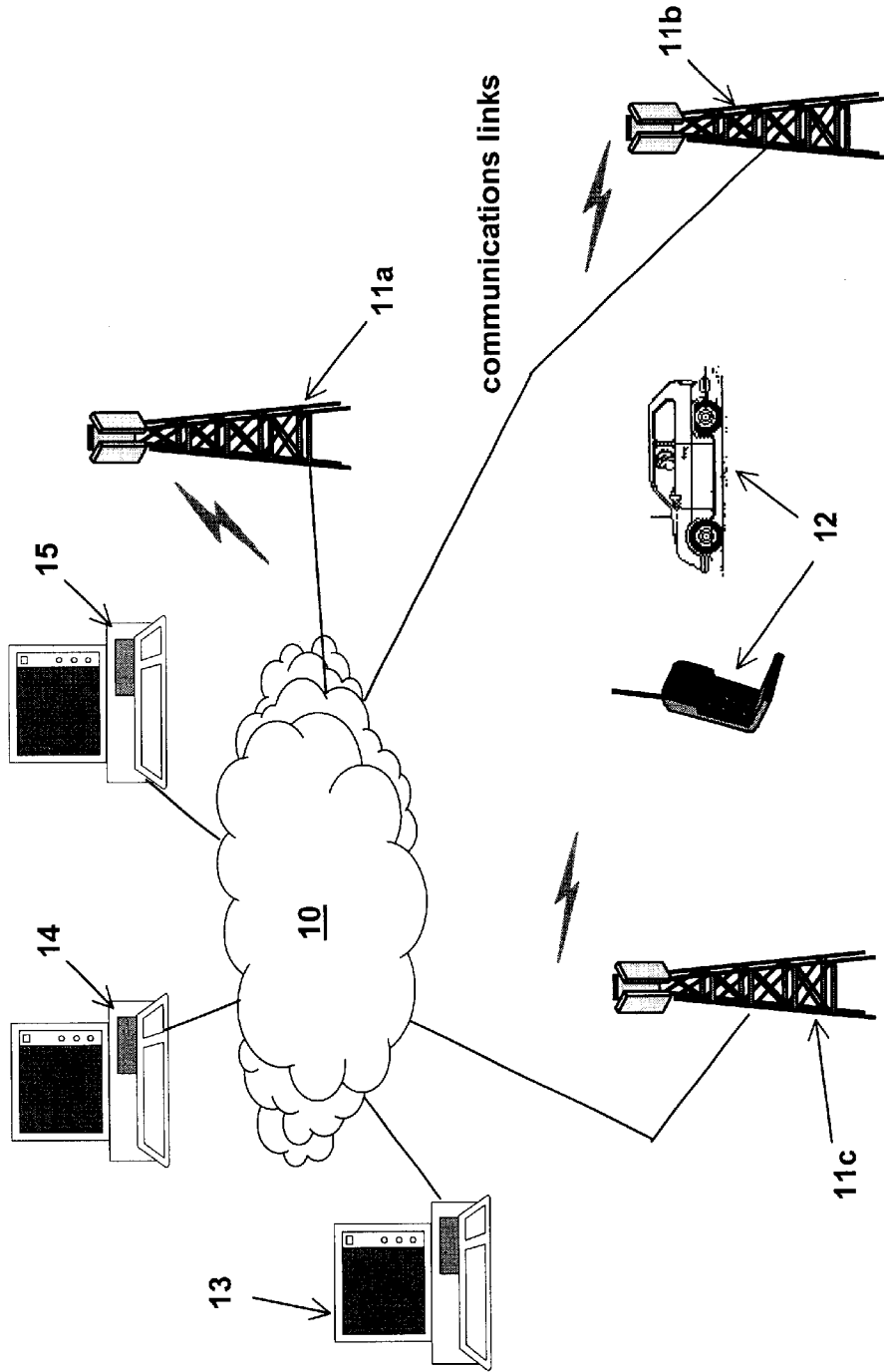


Figure 1

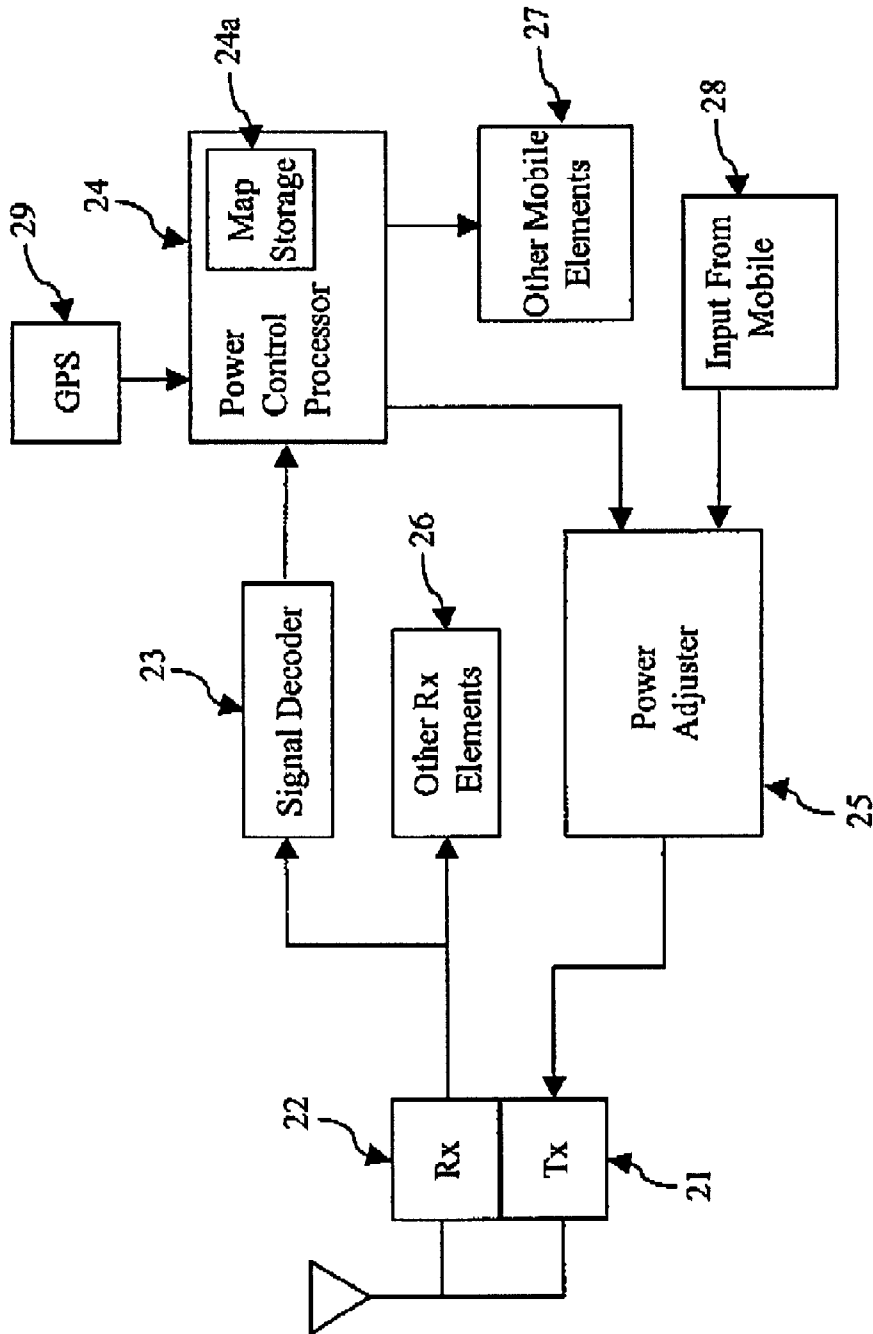


Figure 2

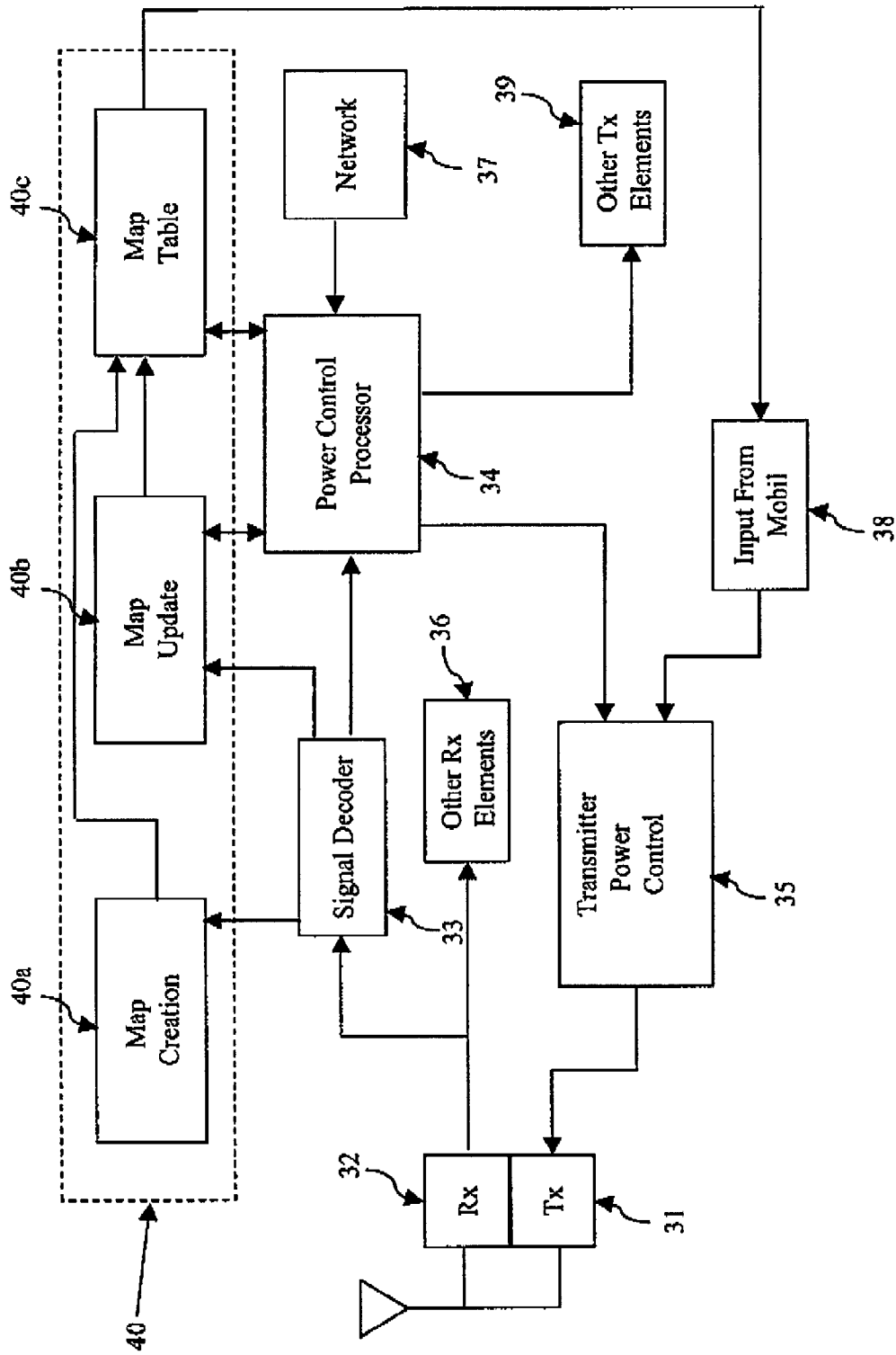


Figure 3

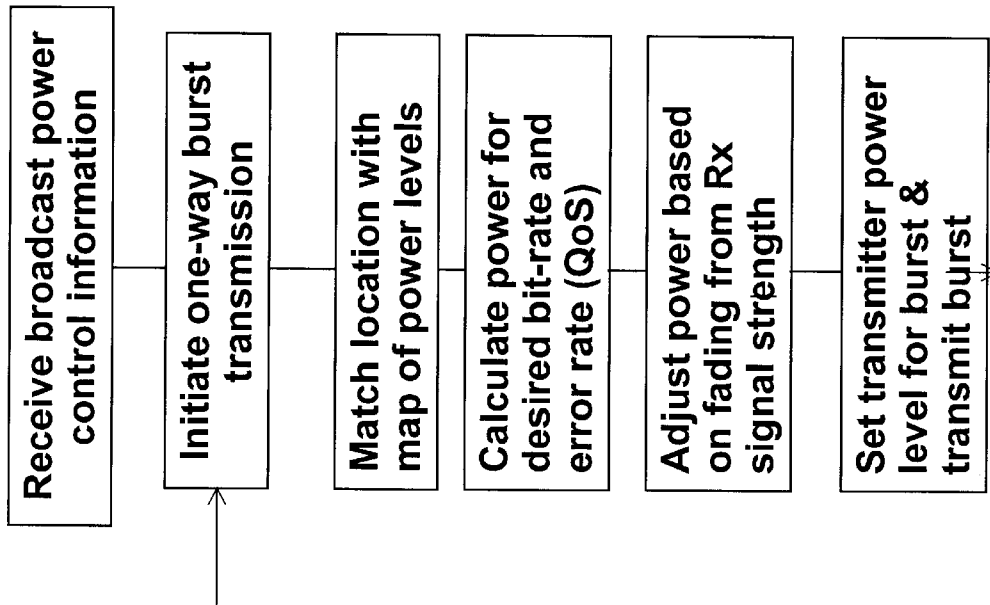


Figure 4

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