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**Huang et al.**

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(54) **METHOD, DEVICE AND VEHICLE UTILIZING THE SAME**

(75) Inventors: **Peng-Chuan Huang**, Hsinchu (TW);  
**Chao Chieh Hsu**, Taipei County (TW);  
**Hong-Hui Chen**, Taipei Hsien (TW)

(73) Assignee: **Mediatek Inc.**, Hsin-Chu (TW)

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**G01C 21/34** (2006.01)  
**G01S 5/02** (2010.01)

(52) **U.S. Cl.** ..... **701/213; 701/214; 340/993; 342/357.12**

(58) **Field of Classification Search** ..... **701/213, 701/214, 207, 209; 340/992, 993; 342/357.12**  
See application file for complete search history.

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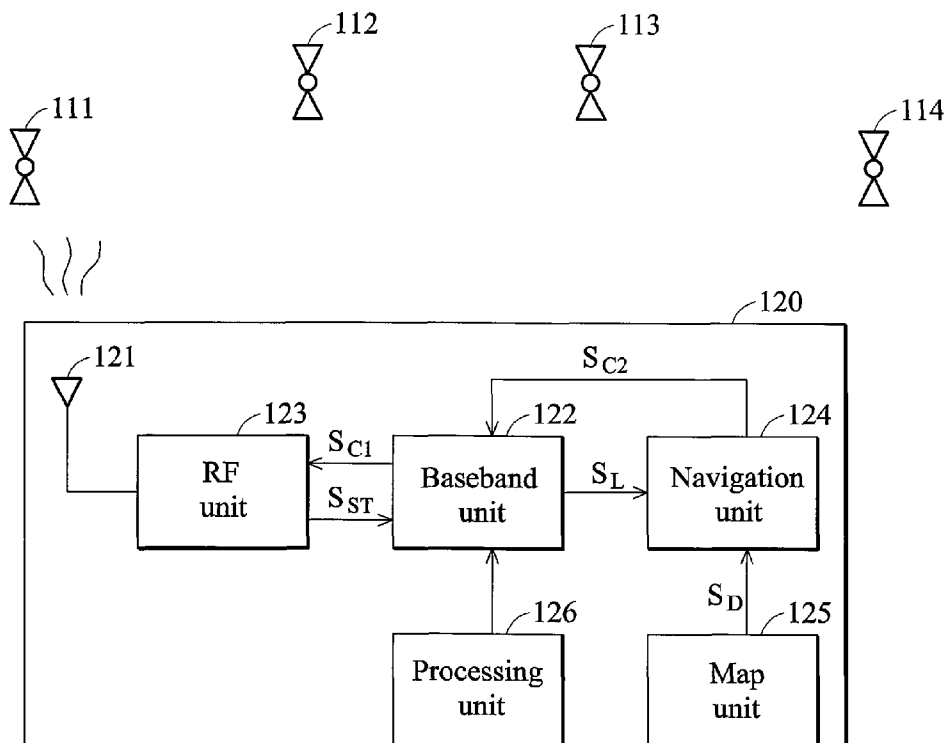
*Primary Examiner*—Tan Q Nguyen

(74) *Attorney, Agent, or Firm*—Thomas, Kayden, Horstemeyer & Risley

(57) **ABSTRACT**

A global positioning system (GPS) device including an antenna and a baseband unit is disclosed. The antenna receives a wireless signal group. The baseband unit processes the wireless signal group to generate a position signal. The position signal is updated every time interval. The duration of the time interval is changed dynamically.

**9 Claims, 5 Drawing Sheets**



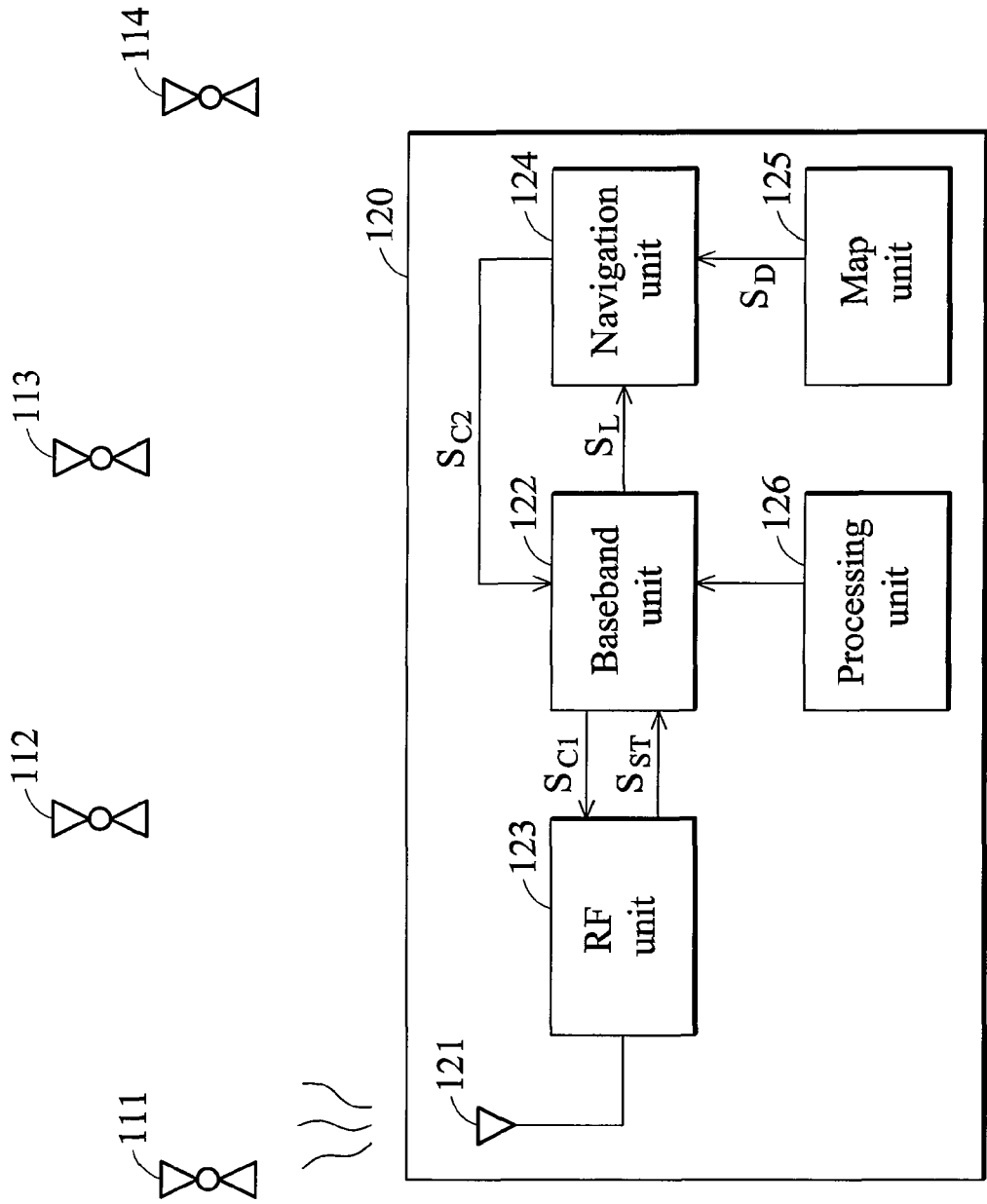


FIG. 1

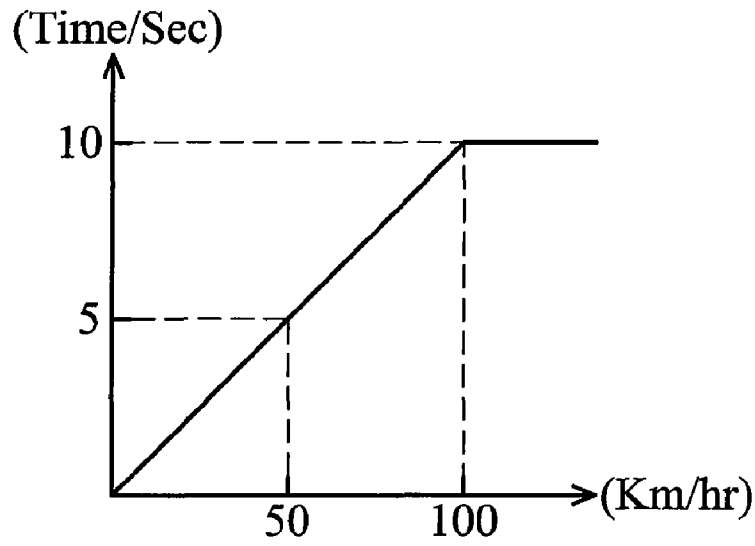


FIG. 2A

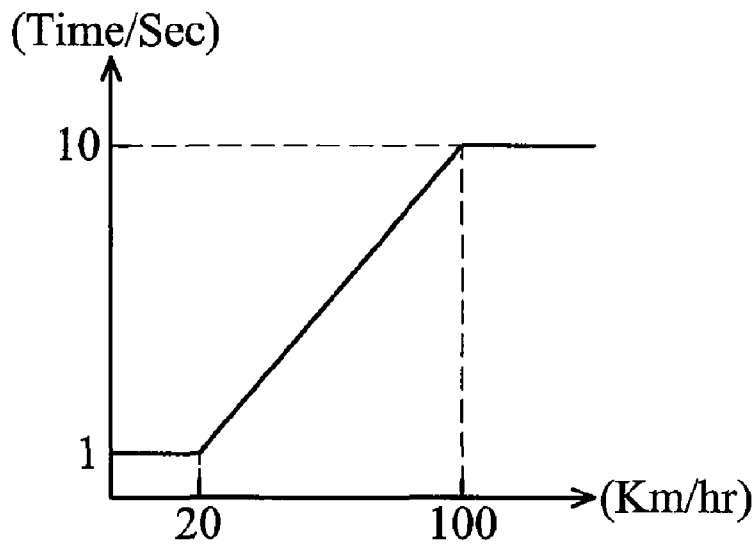


FIG. 2B

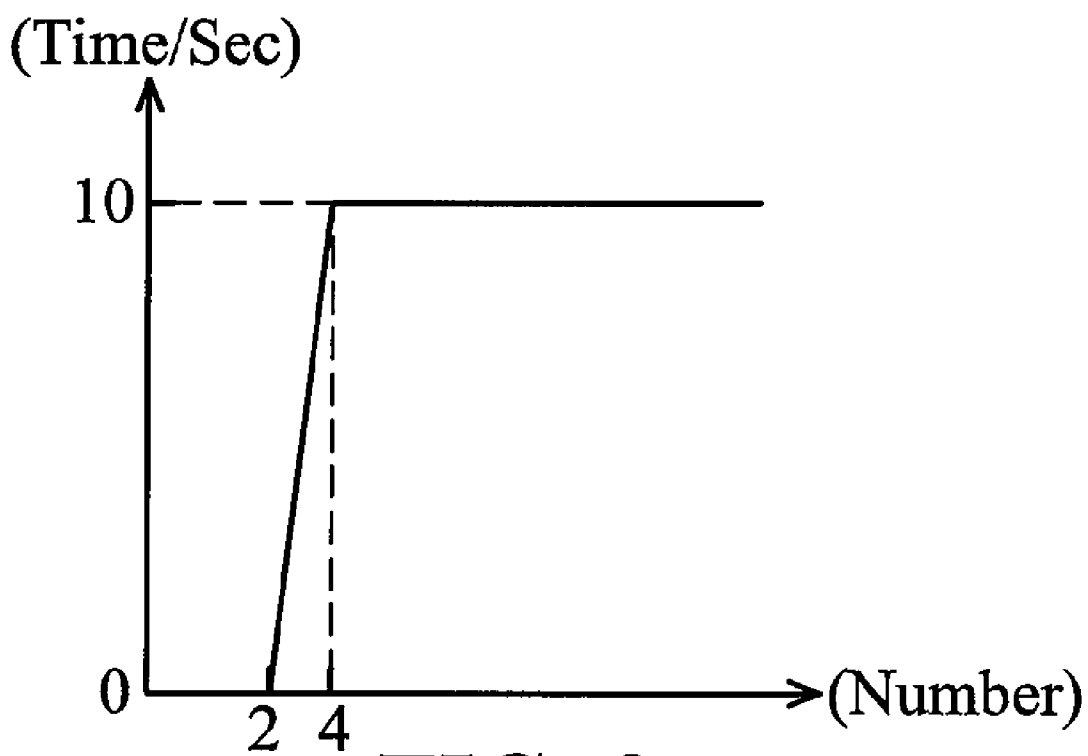


FIG. 3

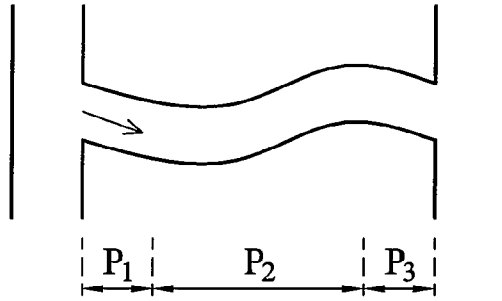


FIG. 4A

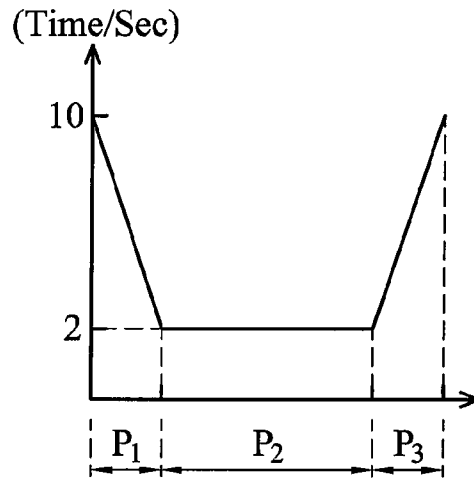


FIG. 4B

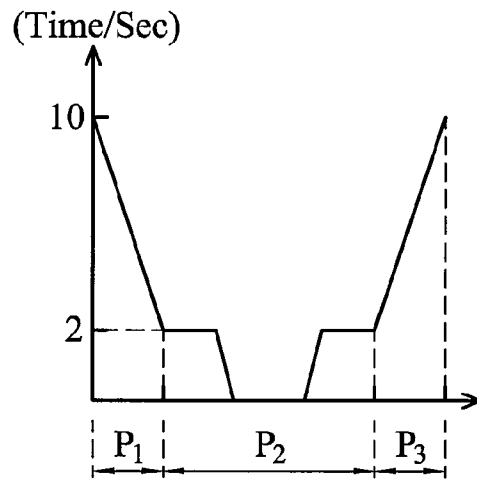


FIG. 4C

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