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[Continued on next page]

(54) Title: MOBILE-UNIT POSITIONING DEVICE

FIG.5

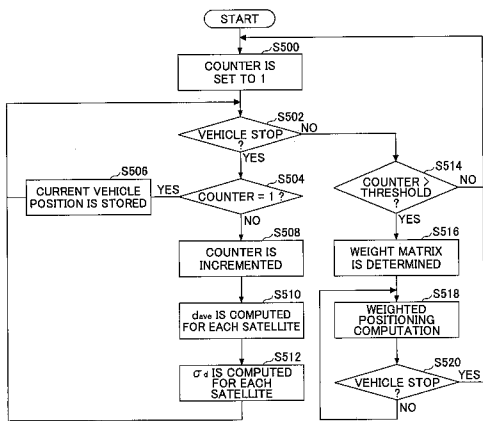
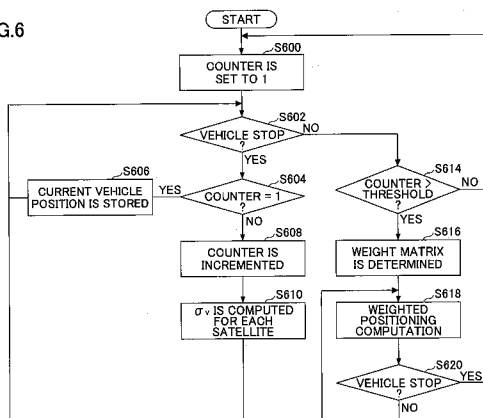


FIG.6



(57) Abstract: In a mobile-unit positioning device, phases of pseudo noise codes carried on satellite signals from satellites are observed at a mobile unit to measure a position of the mobile unit. A pseudo distance between one of the satellites and the mobile unit is measured for every satellite during a stop of the mobile unit using an observed value of the phase acquired during a stop of the mobile unit. An error index value indicating an error of the measured pseudo distance is computed based on the pseudo distances measured at points in time during a stop of the mobile unit. A weighting factor is determined based on the index value computed for every satellite. A weighted positioning computation using the determined weighting factor is performed to determine a position of the mobile unit during movement using an observed value of the phase acquired during movement. A further device is proposed wherein the position is measured using a similar method, however, in this case, the error index is based on an error of a computed mobile unit speed, rather than on the pseudo distance.

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Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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A	JP 2006 322846 A (MITSUBISHI ELECTRIC CORP) 30 November 2006 (2006-11-30)	1-10

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