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(54) Title: PROCESSING OF SATELLITE NAVIGATION SYSTEM SIGNALS

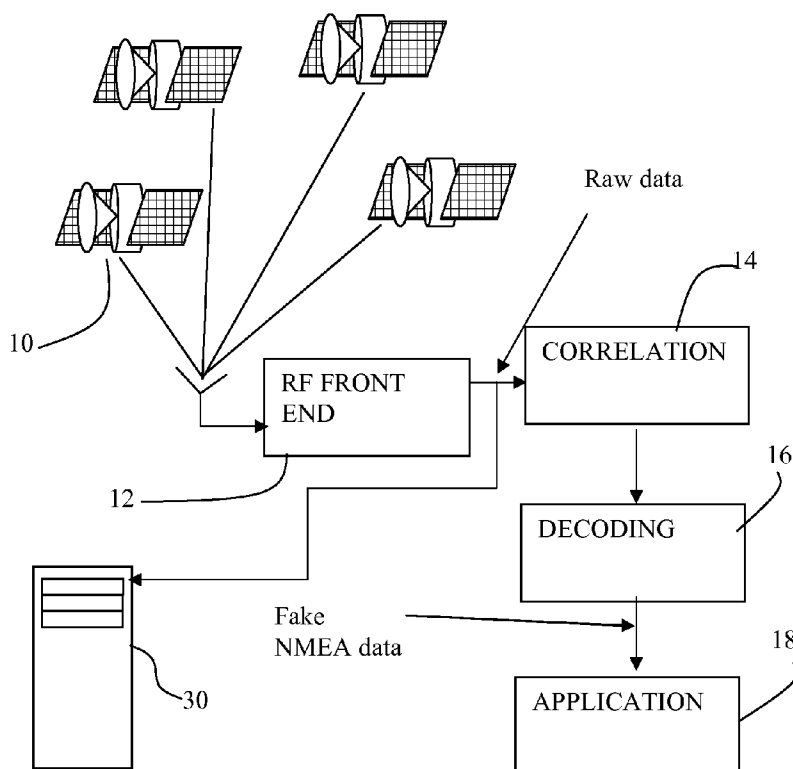


FIG. 3

(57) Abstract: A system implements a location based service, and comprises a satellite navigation receiver implementing a position tracking function for providing the location of a user of the service. An analogue rf receiver (12) receives satellite signals and performs at least a frequency downconversion. Correlation and decoding functions are applied to the downconverted signals for deriving location information from detected specific satellite signals. The system further comprises a server (30) for receiving samples of the downconverted signals, and for verifying the samples are consistent with the expected satellite signals at that time and location. The invention provides a counter measure for detecting the counterfeiting of, or tampering with, the satellite signals at the receiver. A check can be made that the received satellite signals correspond to those which are expected at that location and time.



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