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(57) Abstract :

[033] The present invention discloses a dual-role antenna assembly with noise mitigation. The dual role antenna is configured to receive a radio frequency (RF) signal carrying a GPS source signal including a C/A code. Further, the dual role antenna is configured to have a first asymmetrical gain pattern with a first higher gain sector in a first direction; and to have a second asymmetrical gain pattern with a second higher gain sector in a second direction, the second curled inverted-F substantially omnidirectional antenna being adapted for communicating with either of GEO satellites or LEO/MEO satellites. Furthermore, a communication selection switch for selectively connecting the first asymmetrical gain pattern substantially omnidirectional antenna and the second asymmetrical gain pattern substantially omnidirectional antenna to an RF front-end. Accompanied Drawing [FIG. 1]

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