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Global Positioning System Satellite Selection Method

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DESCRIPTION

This technology is a global positioning (GPS) satellite selection method for navigation of spacecrafts. It involves ranking satellite receivers based on updated antenna position. The correct position of antenna and spacecraft are updated by microcontroller, which is transmitted to system GPS satellite receivers. GPS satellites are ranked for position determination based on received information after which receiver channel of ranked GPS satellite is assigned to spacecraft for positioning.

FEATURES AND BENEFITS

- As global positioning system (GPS) enables positioning and movement of spacecraft, controlling spacecraft from ground system is unnecessary. The GPS receiver enclosure sustains extremes of temperature and electromagnetic interferences in space. Cross-talks in space is eliminated due to elimination of electromagnetic interference.

APPLICATIONS

- Positioning and Navigation
- Aerospace
- Aviation
- Communications

FOR MORE INFORMATION

If you are interested in more information or want to pursue transfer of this technology, GSC-13991-1, please contact:

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