

# Systems and Method for Determining Spacecraft Orientation

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## **DESCRIPTION**

This is a spacecraft orientation method. The method involves generating a signal having star observations in a spacecraft and processing the signal and another signal having position data. A third signal is generated responsive to the processing step, and displayed. An operator is allowed to select and pair the signals displayed as the third signal. A fourth signal is generated from the paired signals and processed to determine an orientation of the spacecraft.

## **FEATURES AND BENEFITS**

- The method process the signal generated by signals having position data and star observations to determine the orientation of the spacecraft, thereby simplifying the user display, and allowing a human operator to more easily recognize star patterns.

## **APPLICATIONS**

- Navigation
- Positioning

## **FOR MORE INFORMATION**

If you are interested in more information or want to pursue transfer of this technology, GSC-14666-1, please contact:

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