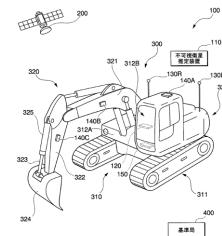


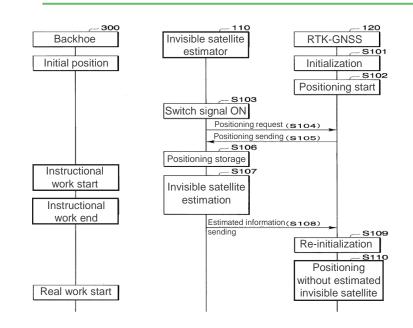
Satellite positioning method, device, system and construction equipment

Positioning process continues even if the object posture is changed



100. Satellite positioning system
110. Invisible satellite estimator
130L/R. Antenna
140A/B/C. Inertial measurement device
150. Foot switch 200. Satellite
300. Backhoe 310. Main body
311. Lower driving body
312. Upper rotating body
312A. Rotating frame 312B. Cab
320. Backhoe attachment
321. Boom 322. Arm 323. Bucket link
324. Bucket 325. Bucket cylinder
400. Reference station

Determine positioning and location without the use of invisible satellite



Contact



Overview

Currently, satellite positioning method using signal emitted from satellite is known to determine the location of an object. Construction equipment such as backhoe and dump truck changes its position and posture. For example, a dump truck changes its posture with the angle of his cargo bed change. As a result, construction equipment with such changing position and posture may not be able to continue the position determination process.

This invention is able to continue the process of determining one object's position even if this object changes its posture. In determining the position of an object using signal emitted from satellite, the invention determines the position of the object without using signal emitted from invisible satellite that may not be able to receive direct waves when the object's posture changes. This improves the accuracy of position information even when one object's posture changes.

Product Application

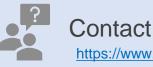
- Dump truck, backhoe and other construction equipment
- Machine that changes position and orientation

IP Data

IP No. : JP2021-096129 Inventor : OHNO Kazunori Admin No. : T19-444

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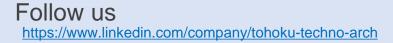




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