CLAIMS

1. A navigation message reception device ~~(200)~~ comprising:

a satellite receiver ~~(230)~~ for receiving a navigation message from an artificial satellite used for a satellite positioning system;

an authentication information receiver ~~(S5)~~ for receiving, from an authentication center, authentication information corresponding to the navigation message received from the artificial satellite;

a center usage authentication portion ~~(S9 to S11)~~ for authenticating whether the navigation message received by the satellite receiver is authentic, by using the authentication information received by the authentication information receiver according to the navigation message;

a continuity determination portion ~~(S24, S35)~~ for, when the satellite receiver receives a new navigation message from the artificial satellite that is a source of the navigation message authenticated by the center usage authentication portion, determining whether or not there is continuity between the navigation message authenticated by the center usage authentication portion and the new navigation message; and

a simplified determination portion ~~(S25, S26, S36, S37)~~ for

determining that the new navigation message is authentic when the continuity determination portion determines that there is continuity between the new navigation message and the navigation message authenticated by the center usage authentication portion and

determining that the new navigation message is unauthentic when the continuity determination portion determines that there is no continuity between the new navigation message and the navigation message authenticated

by the center usage authentication portion.

2. The navigation message reception device according to claim 1, wherein:

the navigation message contains a transmission time thereof; and

the continuity determination portion ~~(S24)~~ determines whether or not an transmission time contained in the navigation message authenticated by the center usage authentication portion and an transmission time contained in the new navigation message have therebetween continuity that corresponds to a reception time difference between a reception time of the authenticated navigation message and a reception time of the new navigation message.

3. The navigation message reception device according to claim 1, wherein:

the navigation message contains a transmission time thereof;

the new navigation message is a navigation message that is received by the satellite receiver within a specified time period from a reception time of the navigation message authenticated by the center usage authentication portion; and

when a difference between two pseudo-distances, one of which is determined from a transmission time and a reception time of the navigation message authenticated by the center usage authentication portion and the other of which is determined from a transmission time and a reception time of the new navigation message, is smaller than a threshold value, the continuity determination portion ~~(S35)~~ determines that there is the continuity between the navigation message authenticated by the center usage authentication portion and the new navigation message.