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; and

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;

wherein the navigation message contains consistency information ensuring consistency between a plurality of the artificial satellites,

the navigation message reception device further comprising:

a consistency determination portion ~~(S22, S34)~~ for determining whether information ensuring consistency with the consistency information contained in the navigation message successfully authenticated by the center usage authentication portion is contained in a navigation message received by the satellite receiver from an unauthenticated satellite, wherein the unauthenticated satellite is the artificial satellite other than a source of the navigation message successfully authenticated by the center usage authentication portion; and

a simplified determination portion ~~(S23, S24, S35, S36)~~

for determining that the navigation message received by the satellite receiver is authentic when the consistency determination portion

determines that the information ensuring the consistency is contained in the navigation message ,and

for not determining that the navigation message received by the satellite receiver is authentic when the consistency determination portion determines that the information ensuring the consistency is not contained in the navigation message.

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

the consistency information is a transmission time of the navigation message; and

based on whether there is a match between a transmission time contained in the navigation message successfully authenticated by the center usage authentication portion and a transmission time contained in the navigation message received by the satellite receiver from the unauthenticated satellite, the consistency determination portion ~~(S32)~~ determines whether the information ensuring the consistency is contained.

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

the navigation message contains satellite position calculation information enabling to calculate satellite positions of not only the artificial satellite that is a source of the navigation message but also another artificial satellite;

the consistency information is the satellite position calculation information; and

based on whether there is a match between a satellite position of the

unauthenticated satellite calculated from the satellite position calculation information contained in the navigation message successfully authenticated by the center usage authentication portion and a satellite position of the unauthenticated satellite calculated from the satellite position calculation information contained in a navigation message received by the satellite receiver from the unauthenticated satellite, the consistency determination portion ~~(S34)~~ determines whether the information ensuring the consistency is contained.