

ABSTRACT

DEVICE WITH POSITIONING FUNCTION, POSITIONING RESULT RECEIVING DEVICE, AND POSITIONING RESULT UTILIZING SYSTEM

A device with a positioning function includes a satellite receiver (230) receiving signals from artificial satellites used in a satellite positioning system, a positioning section (S1) measuring a host device position based on satellite signals, an authentication information acquisition section (S5) acquiring, from an authentication center (120), authentication information used for authenticating the satellite signals, an authentication section (S9, S10, S11) authenticating, based on the authentication information, the satellite signals, an authentication level calculation section (S22) calculating an authentication level based on at least one of the number of artificial satellites that are authenticated or a ratio of the artificial satellites that are authenticated to the artificial satellites used in positioning, and a positioning result transmission processing section (S24) transmitting a positioning result which includes the authentication level to a different device other than the host device.

FIG. 1