

ABSTRACT

The invention relates to a positioning method based on 5G and a positioning system thereof. The method comprises: a broadcasting step of acquiring positioning information of the 5G base station from the satellite by the 5G base station, obtaining calibration information based on the positioning information, and broadcasting outwards the calibration information by the 5G base station; an initial positioning step of acquiring initial positioning information of the user terminal from the satellite by the user terminal; a monitoring step of accessing a nearest 5G base station in real time, monitoring and acquiring calibration information broadcasted by the nearest 5G base station by the user terminal; and a calibration step of calibrating the initial positioning information acquired in the initial positioning step according to the calibration information acquired in the monitoring step by the user terminal to obtain positioning result information. As described above, according to the invention, the positioning of centimeter level precision can be realized by utilizing the 5G base station, and there is no need to additionally establish the CROS base station and the data center, thereby the cost of precise positioning can be reduced.

FIG. 1