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ABSTRACT

A position recognition device for deciding a zone where a moving object takes a position. The device comprises: a travel distance decider for deciding whether or not the moving object has traveled a predetermined distance corresponding to the detection error of the position of the moving object; and a zone decider for deciding the zone where the moving object takes a position, if the travel distance decider decides that the moving object has traveled the predetermined distance.

According to the invention, therefore, "the decision of the zone where the moving object exists" is not made, in case the position of the moving object cannot be precisely detected. Therefore, the precision in the decision of the zone where the moving object exists is improved, and it is unnecessary to set a buffer zone that "the decision of the zone where the moving object exists is not made if the moving object takes a position in the neighborhood" as the reference for deciding the existing zone of the moving object. Without the necessity for setting the buffer zone, therefore, it is possible to reduce the quantities of data and operations and to suppress the rise in the cost for manufacturing the position recognition device. Within the travel distance for a possible error in the detection of the position of the moving object, moreover, it is unnecessary to detect the position of the moving object. Therefore, it is sufficient to acquire discrete pieces of positional information so as to be the position recognition device. It is, therefore, possible to promote the reduction in the size of the position recognition device and to suppress the rise in the cost for manufacturing the position recognition device.

