

## **Development of a Train Control System by Using the On-board Interlocking**

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We have considered a basic concept of a train control system which can reduce the equipment for the signal system belonging to the station. In this system, an on-board train positioning device detects the train position by using wireless IC-tags on the sleeper. Furthermore, the on-board interlocking device controls the point machines belonging to the reserved route at this detecting position. This control is using the radio-communication. Therefore, this system can omit the equipment of the station, such as the signal device, the interlocking device, and the track circuits. In this paper, the author reports the specifications of the system and the results of the receiving test of the wireless IC-tag.