Rail Fastening System in Consideration of the Change in Track Structure

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Some construction methods under which temporary girders are used as a component of permanent structures without dismantlement are proposed and in practical use in railway structures. In case where these construction methods are adopted, the track structure changes in a period of construction and the rail fastening system is required to be installed with enough adjustability both in the vertical and horizontal directions. In this study, a new-type fastening system with the properties was developed based on the existing fastening system for bridge sleepers. Furthermore, the performance verification of the system and its evaluation of applicability to service lines were carried out.