

Mechanism and Preventing Method of Sleeper Skewing

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Rail creep sometimes takes place in reverse direction for low and high rails in curves whose radius are from 600 m to 1000 m. This causes sleeper skewing and needs re-setup work of continuous welded rail. We performed a field survey of sleeper skewing and measured rail creeping force in a service line to clarify the mechanism of sleeper skewing. Rail creeping force is generated in reverse direction for low and high rails of mild curve. In this study, rail fastening was improved to prevent sleeper skewing and the effect was confirmed by several tests and an analysis.