

## **Development of Position Adjustable Rail Fastener for Bridge Sleeper**

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Since the rail fastening device used for bridge sleeper sections of the narrow-gauge line needs striking a new screw spike to adjust the alignment of rail, the unnecessary screw spike holes are remained and they become a factor to deteriorate bridge sleepers. Furthermore, with respect to the rail fastener developed in 2002, it is difficult to adjust the alignment of rail because of a bridge guard rail and a hook bolt. Therefore a new rail fastening has been developed, which has the function to resist a lateral force with stud bolt and to adjust irregularity of rail alignment with replacement of washer.