

Detecting Method of Step-shaped Wear on Contact Strip by Measurement of Contact Wire Vibration

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Some factors such as arc between contact wire and contact strips of a pantograph cause wear on the contact strips. Once the local wear occurs, it is highly likely to grow to a step-shaped wear. The contact strip with the step-shaped wear may lead to accidents such as contact wire breaking. For preventing such accidents, authors have developed a contact strip step-shaped wear detecting method by measurement of contact wire vibration. This paper has described the new method and the result of experimental tests.