

Pantograph Damage Monitoring System

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PANTOBOT 3D - CAMLIN Group
WO 2009/018612 PCT/AU2008/001135 PANTOGRAPH DAMAGE AND WEAR MONITORING SYSTEM TECHNICAL FIELD The invention described herein relates to locomotive pantographs. In particular, the invention is directed to an automated pantograph damage and wear monitoring 5 system, although the scope of the invention is not necessarily limited thereto.

Pantograph Parameters measurement and inspection systems
This paper discusses the background and state-of-the-art in pantograph monitoring as well as describing the main features of this innovative condition monitoring technology, including trials in live traffic conditions. ... Pantograph damage and wear monitoring system. Access Full Text.

PANTOGRAPH DAMAGE AND WEAR MONITORING SYSTEM - QR LIMITED
Overhead Catenary System (OCS) inspection system Pantograph Monitoring System. For line doing mutual direct operation between the different railway companies, it detects any pantograph abnormalities. By the camera installed near the structure (like beam, etc.) ...

Pantograph damage and wear monitoring system by Aurizon ...
Unattended Pantograph Monitoring Systems We are at the forefront of continuous, in-service overhead line monitoring for the rail industry. Serco's extensive experience in pantograph testing and overhead line monitoring enabled us to develop an unattended pantograph monitoring system in partnership with Transmissions Dynamics Ltd.

Pantograph Monitoring System | Overhead Catenary System ...
The Pantograph Condition Monitoring System. The system can measure carbon thickness, carbon damage (e.g. missing carbon, edge chips, abnormal wear and cracks), pantograph head yaw angle, missing horns, horn alignment, uplift force and train speed, with real time analysis reported back to the asset owner.

Pantograph monitoring for the eHighway
The system monitors the pantograph in two ways. Cameras monitor the carbon surfaces on the contact strip. Special algorithms evaluate the level of wear or incipient damage. As soon as enough measurement data is available from various systems, the solution will also try to predict when the carbon strips have to be replaced.

Pantograph II - Failure Analysis, Monitor & Testing Regime
Many factors and parameters can affect the interaction between the pantograph and the catenary. Internal or external factors affect the dynamic behavior of the system and lead to parameter variations. A pantograph in "non-standard conditions" might adversely affects the contact line or that requires a specific maintenance activities.

Catenary and pantograph monitoring catching snags before ...
More recent developments have involved bespoke equipment to monitor the contact system and the interface – this has not been a low cost or generic option. Contact wire height and stagger. The recent development of cameras being fitted to the roofs of modern electric trains has generated an opportunity to develop a more real time and wide-ranging monitoring process.

Pantograph Condition Monitoring System - Australian Rail ...
Pantograph Damage Monitoring System Together with a time trace of such critical events, the precise GPS stamp provides time, date and location of their occurrence which is securely logged. The receiver can automatically alert designated personnel of severe impact events via TMS or GSM network, and can

Pantograph damage and wear monitoring system
See the full picture of pantograph condition for smarter maintenance. PANTOBOT 3D is the world's first fully automated three-dimensional wayside pantograph inspection and monitoring system. Deployed by rail operators across Europe, North America, and Asia, PANTOBOT 3D uses advanced imaging and machine learning to assess pantograph condition – safely, in real-time and without the need to ...

Pantograph Damage Monitoring System
The Pantograph Condition Monitoring System (PCMS) provides automated analysis and reports on the condition of pantograph heads on electrified rolling stock passing through a monitoring site. Automated analysis from this system allows for the prevention of over-head wiring tear down incidents that are a result of damaged pantograph heads and also allows for predictive maintenance of carbon strips.

OLert – Overhead Line and Pantograph Monitoring | Rail ...
The pantograph monitoring system also met NR's pre-determined technical and performance criteria for the trial. ... The system allows infrastructure owners to identify those vehicles in operation that are at greater risk of inflicting damage to the network's wires due to general wear and tear.

EP2174117A4 - Pantograph damage and wear monitoring system ...
A system for evaluating the condition of a pantograph, the system comprising: a track-side pantograph monitoring station that captures one or more images of a pantograph, while a locomotive comprising the pantograph is in normal service; a station management system that analyses one or more images captured at the monitoring site and determines the condition of the pantograph; and a user ...

Unattended Pantograph Monitoring Systems
Pantograph monitoring for the eHighway 13 January 2015 Siemens is developing an automatic monitoring system for pantographs. ... lead to contact problems and thus to damage of the

Pantograph Damage and Wear Monitoring System | Request PDF
Pantograph Damage Monitoring System Pantograph Damage Monitoring System Together with a time trace of such critical events, the precise GPS stamp provides time, date and location of their occurrence which is securely logged. The receiver can automatically alert designated personnel of severe impact events via TMS or GSM network, and can

Siemens developing monitoring system for pantographs for ...
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Pantograph Damage Monitoring System - modapktown.com
Pantograph Damage and Wear Monitoring System PCT/AU2008/001135 WO2009018612A1 (en) 2007-08-06: 2008-08-06: Pantograph damage and wear monitoring system Publications (3) Publication Number Publication Date; EP2174117A1 EP2174117A1 (en) 2010-04-14: EP2174117A4 true ...

Pantograph Damage Monitoring System
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US20100322465A1 - Pantograph damage and wear monitoring ...
Request PDF | Pantograph Damage and Wear Monitoring System | NewRail, the Centre for Railway Research at Newcastle University together with the specialised design and analysis company Northern ...

Network Rail approves Ricardo's pantograph monitoring system
Pantograph Sensors □ Pantograph Monitoring System As shown previously, carbon strip can cause torn down of an entire OHLE system. □ New lineside system developed to capture and scrutinise high-speed photographs taken of the pantograph. □ A brief working flowchart: 19/10/2015 82 83.

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