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Pantograph
Damage
Monitoring
System
Pantograph
Damage
Monitoring
System

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~~Pantograph
Monitoring Through
Video Analysis~~
Pantograph
Damage Detection
System (PANDAS)

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Pantographs 101

Pantograph
Monitoring
System
D-RAIL

Infrastructure
monitoring
catenary sensor
pantograph
damage

Pantograph
Working Principle |
Pantograph
Mechanism | WAP7
Pantograph

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Australian Rail
Technology
Pantograph
Collision Detection
System ~~Class 350~~
~~Damaged~~
~~Pantograph~~
~~departing Crewe~~
~~Catenary and~~
~~pantograph how~~
~~does it work~~

Pantograph
Catching Catenary
Tensioning Wire

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Damage
Monitoring
System
Captured on
Pantograph
Collision Detection
System

PantoSystem for
Automated and
Real-time 3D
Wayside

Pantograph
Monitoring

Amazing Crazy
Train Videos!!!

~~Pantograph strike
at Bedford~~

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~~05/03/14~~

Pantograph and
overhead catenary
at high speed

Section insulator

arcing and short

circuit caused by

faulty pantograph

Pantograph arcing

at 27000 V

Pantograph and
overhead wire

~~MSE
LNER Lattice post~~

~~Signal (MegaPoints~~

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~~controlled)~~

~~A Pantograph and a
25 kV overhead
lineDIY 1:1 plasma
cutter pantograph
(copy drawings)~~

Pantograph of
Electric Locomotive
entangled with
OHEHow an
electric locomotive
works... Difference
Between
Pantograph and

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Third Rail System

~~Pantograph~~

~~Damage Carbon~~

~~Strip w/air pipe~~

~~Hitting a bad~~

~~section insulator~~

~~incl. slow motion.~~

Managing Lighting
Industry

Relationships and
Evolving Your

Career with Ethan
Weber – Webinar

Pantagraph mouse,

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corded wooden
keyboard, tube
microphone -- for
EHS people

Economics

Summary | Very

Important for

UPSC/MPSC -

PSI/STI/ASO | GDC

ACADEMY †

~~reported overhead~~

~~wire damage to~~

~~Network Rail Web~~

Research Part 2

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~~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

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logged. The receiver can automatically alert designated personnel of severe impact events via TMS or GSM network, and can ...

~~Pantograph
Damage Monitoring
System~~

Pantograph
Page 13/48

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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

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Damage
Monitoring
System
personnel of
severe impact
events via TMS or
GSM

~~Pantograph
Damage Monitoring
System~~

NewRail, the
Centre for Railway
Research at
Newcastle
University together
with the

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specialised design
and analysis
company Northern
Power

Transmission
Research
Laboratories and
the leading rail
services provider
Serco Assurance-
Railtest have
pioneered a unique
novel system,
which allows

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Damage
Monitoring
System
impact between
overhead line and
pantograph to be
measured on
normal service
trains.

~~Pantograph
damage and wear
monitoring system~~
Pantograph
Damage Monitoring
System The
Pantograph

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Damage
Monitoring System
Monitoring System

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

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prevention of over-
head wiring tear
down
System

~~Pantograph
Damage Monitoring
System~~

Pantograph
Damage Monitoring
System Pantograph
Damage Monitoring
System Together
with a time trace of
such critical

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Damage Monitoring System

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

Read Free Pantograph Damage

Monitoring Pantograph System

Damage Monitoring
System

A system for evaluating the condition of a pantograph, the system comprising: a track-side pantograph monitoring station that captures one

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Damage Monitoring System
Or more images of a pantograph, while a locomotive comprising the pantograph is in normal service; a station management system that analyzes one or more images captured at the monitoring site and determines the

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Damage of the
pantograph; and a
user ...

System

~~US9061594B2~~

~~Pantograph~~

~~damage and wear
monitoring system~~

~~...~~

The automatic
diagnosis systems
can be installed
directly on the
locomotive, as are

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Damage
Monitoring
System

those based on the analysis of mechanical stress suffered by the pantograph or of the noise generated by friction...

~~Pantograph
Damage and Wear
Monitoring System
| Request PDF~~

A system for

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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...

~~US20100322465A1~~

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~~Pantograph
damage and wear
monitoring ...~~

PANTOBOT 3D is
the world's first
fully automated
three-dimensional
wayside
pantograph
inspection and
monitoring system.
Deployed by rail
operators across
Europe, North

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Damage Monitoring System
America, and Asia,
PANTOBOT 3D uses
advanced imaging
and machine
learning to assess
pantograph
condition – safely,
in real-time and
without the need to
withdraw trains
from service.

~~PANTOBOT 3D~~
~~CAMLIN Group~~

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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. This system needed to be capable of being

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Damage Monitoring System fitted to vehicles operating in passenger carrying service and has been designed to automatically detect and report the type of faults which lead to pantograph damage and possible de wirement incidents.

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~~Unattended
Pantograph
Monitoring Systems~~

The Pantograph
Condition

Monitoring System
(PCMS) is installed
above the railway
to automatically
scan the condition
of pantographs as
they pass
underneath. The
process occurs

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without any contact between the system and the rollingstock itself: as the vehicle passes through the scan location, the system assesses wear on the pantograph head, and scans for any chips or damaged areas.

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~~Catenary and
pantograph
monitoring
System
catching snags
before ...~~

In order to test the theory, Great Western Railway made available a class 387 electric multiple unit to which was fitted the pantograph monitoring camera.

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Following a calibration exercise to eliminate any lens distortion and ensure the pantograph was within height range, a network video recorder (NVR) was installed into the train roof-space.

~~OLErt Overhead~~

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~~Line and
Pantograph
Monitoring | Rail ...~~

wear monitoring
pantograph
damage
pantograph
damage wear Prior
art date
2007-08-06 Legal
status (The legal
status is an
assumption and is
not a legal

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Conclusion. Google
has not performed
a legal analysis and
makes no

representation as
to the accuracy of
the status listed.)

Granted

Application number
EP08782885.1A

Other languages
German (de ...

~~EP2174117A4~~

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~~Pantograph
damage and wear
monitoring system~~
System

Overhead Catenary
System (OCS)
inspection system
Pantograph
Monitoring System.
For line doing
mutual direct
operation between
the different
railway companies,

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Damage Monitoring System
it detects any pantograph abnormalities. By the camera installed near the structure (like beam, etc.) near the operating boundary of each railway company, the photograph of pantograph on the crossing train is taken each time

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Damage
Monitoring
System
automatically.

Pantograph

Monitoring System

Overhead

Catenary System ...

The Pantograph

Condition

Monitoring System

(PCMS) provides

automated analysis

and reports on the

condition of

pantograph heads

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Damage
Monitoring
System

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

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predictive
maintenance of
carbon strips.

System

~~Pantograph
Condition
Monitoring System
— Australian Rail ...~~

Product approval
based on a
successful two year
in-service trial at
Cheddington on the
West Coast Main

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Line. Network Rail, the UK infrastructure manager, has confirmed that Ricardo Rail's pantograph monitoring system – known as 'PanMon' – has been formally approved for use across the national network. Ricardo

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Rail is now working with Network Rail for a wider roll-out of the system, commencing with four sites on the West Coast Main Line (WCML).

~~Ricardo pantograph monitoring system approved by Network ...~~

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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

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Damage Monitoring System
automatically alert designated personnel of severe impact events via TMS or GSM network, and can

~~Pantograph
Damage Monitoring
System~~

~~modapktown.com~~

Internal or external factors affect the

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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. A complete

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Damage Monitoring System
Inspection of each of its parts is needed to perform data correlation.

~~Pantograph
Parameters
measurement and
inspection systems~~

The system consists of an acquisition and Data Processing Module (DPM)

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installed on the live pantograph frame, which continuously monitors the acceleration at the pantograph head and detects when transient signals exceed user-defined limits.

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Copyright code : 35
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4100a1195a35bf
System