

Title (en)
Damping arrangements.

Title (de)
Dämpfungsvorrichtungen.

Title (fr)
Dispositifs amortisseurs.

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Application
EP 91306208 A 19910709

Priority
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Abstract (en)
A damping arrangement for use on a train of railway vehicles (1, 2, 3) for damping unwanted motion of a vehicle body (8) transmitted by a supporting bogie (5), the bogie being subject to shock movement resulting from track irregularity. Hydraulic dampers (7) fitted between the bogie (5) and body (8) are adapted (12, 14, 15, 16, 17 - Figure 2; 12, 18, 19, 20, 21 - Figure 3) to provide a number of discrete values of damping resistance. Shock movement is detected by accelerometers (23) fitted on one or more bogies ahead in the train. With a knowledge of the train speed (22) and the bogie spacing, the occurrence of jerks, etc. is 'predicted' for the following bogies and their dampers (7) controlled (12, 24) to provide the optimum resistance value for a smooth ride. No stored record of the track profile is required. <IMAGE>

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IPC 8 full level
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CPC (source: EP)
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• [A] FR 2312402 A1 19761224 - NICOLI JACQUES [FR]
• [A] GB 2015954 A 19790919 - SCHWEIZERISCHE LOKOMOTIV
• [A] GB 2135643 A 19840905 - KRUPP GMBH

Cited by
EP0542386A1; AT523116A1; AT523116B1; EP0852199A1; FR2757817A1; EP0736439A1; US6684139B1; EP3892516A4; WO9829288A1; WO9603303A1

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