

Title (en)

Bogie for railway freight wagons with radial self-steerable wheel-sets

Title (de)

Drehgestell für Eisenbahngüterwagen mit radial selbstlenkenden Radsätzen

Title (fr)

Bogie pour wagons à trains de roues auto-orientables radialement

Publication

EP 1097852 A1 20010509 (EN)

Application

EP 99121651 A 19991102

Priority

EP 99121651 A 19991102

Abstract (en)

Self steerable bogie for a railway freight wagon, comprising two or more axles (1) provided with wheels (20). Each axle is fitted in a wheel set or axle guiding system (3), vertically suspendedly movable due to vertical load and vertical irregularities emanating from a track while the bogie is in motion, and horizontally to a smaller extent, within the limits of a longitudinal play(e), both in relation to a bogie frame (4). Between said frame (4) and said guiding system (3) is a primary suspension, having two springs or sets of springs (5) arranged vertically at each side of and at each wheel (20) of said guiding system (3). Both springs or sets of springs (5) is connected to a friction dampening arrangement (6, 7, 8, 9) providing a dampening friction force to the suspension movement of the wheel-set guiding system (3). This is achieved by eliminating said longitudinal play (e) between the guiding system (3) and the bogie frame (4) whereby an elastic steerability of the axles which is proportional to vertical load on the bogie is reached by allowing a load dependent elastic movement in the direction of the tangent to the travelling direction of the freight wagon of each wheel-set, amounting to a maximum of (+/- e). <IMAGE>

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

B61F 5/301 (2013.01)

Citation (applicant)

US 4674412 A 19870623 - MULCAHY HARRY W [US], et al

Citation (search report)

- [X] WO 9015744 A1 19901227 - ARBEL FAUVET RAIL SA [FR]
- [X] EP 0048193 A1 19820324 - SNCF [FR]
- [X] EP 0035443 A1 19810909 - SAMBRE & MEUSE USINES [FR]

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