

Title (en)

Chassis suspension on at least two axles of a railway vehicle, and chassis provided with this suspension.

Title (de)

Aufhängung eines Eisenbahnfahrgestellrahmens an zumindest zwei Achsen und mit dieser Aufhängung versehener Fahrgestellrahmen.

Title (fr)

Suspension pour chassis à au moins deux essieux de véhicule de chemin de fer et chassis muni de cette suspension.

Publication

EP 0035443 A1 19810909 (FR)

Application

EP 81400291 A 19810225

Priority

FR 8004518 A 19800229

Abstract (en)

1. Suspension for railway vehicle underframe having two axles, at least one of the axles being mounted, in the vicinity of each of its ends, in an axle box (7), this suspension (6) comprising, for each box (7) of this axle (4), elastic means (9) supported by the axle box and which, on each side of this latter, are applied against the underframe through the intermediary of at least one connecting link pivoted with respect to the underframe (1) and with respect to that end of the elastic means (9) which is associated with the underframe, the two lines (XX', YY') of application of the forces to which these links (13, 14) are subjected and which pass through the pivot points (16, 17, 21) of these latter having opposite inclinations (A, B), one of the links (14) being mounted in tension, and coupling means arranged between the axle box (7) and the pivots (16) connecting the links (13, 14) to the elastic means (9) so that any displacement of the axle box in a longitudinal direction of the underframe (1) produces a corresponding displacement of these pivots (16), characterized in that the upper link (13) is mounted in compression, that the two links (13, 14) have different inclinations (A, B), and that the underframe carries a reference face (31) against which the axle box (7) is applied in a straight line under the action of the threshold of force exerted on it by reason of the difference in inclination of the links (13, 14).

Abstract (fr)

L'un au moins des essieux est monté, au voisinage de chacune de ses extrémités, dans une boîte d'essieu (7). Cette suspension comprend, pour chaque boîte de cet essieu, des moyens élastiques (9) prenant appui sur le châssis (1) de part et d'autre de l'essieu, chacun entre cette boîte d'essieu (7) et un chapeau (11, 12) relié au châssis (1). La suspension comprend au moins deux brides de liaison (13, 14) articulées chacune à l'un des chapeaux (11, 12) et au châssis (1). Les deux lignes (XX', YY') d'application des efforts auxquels sont soumises ces brides (13, 14) et qui passent par les points d'articulation (16, 17, 21) de ces dernières convergent vers le bas en position de service du châssis. Deux poussoirs à friction (23) antagonistes sont interposés entre la boîte d'essieu (7) et les chapeaux (11, 12). Utilisation en particulier pour les bogies de wagon circulant sur des voies ferrées où les courbes sont fréquentes.

IPC 1-7

B61F 5/30

IPC 8 full level

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CPC (source: EP)

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Cited by

EP1097852A1; EP1057707A1; FR2794415A1; DE4141463A1; EP0048193A1; FR2490172A1; FR2648417A1; EP0443953A1; FR2658471A1; CN112849190A; GB2422587A; GB2422588A; WO2022205914A1; WO9015744A1; WO2022205913A1

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