

Title (en)

Rail vehicle with self steering running gear

Title (de)

Schienenfahrzeug mit selbstlenkendem Fahrgestell

Title (fr)

Véhicule ferroviaire avec train roulant autodirecteur

Publication

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Application

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Priority

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Abstract (en)

[origin: EP2551169A1] The invention relates to a rail vehicle, in particular for high-speed travel, comprising a wagon body (103) supported on at least one running gear (102) said wagon body (103) having a nominal load and defining a longitudinal direction, a transverse direction and a height direction. The running gear (102) comprises a wheel unit (104) and a running gear frame (105) supported on said wheel unit (104) via at least one spring device (106, 107), the wheel unit (104) defining a wheel unit axis and comprising two wheel unit bearings (108) spaced in said transverse direction. Each wheel unit (104) bearing is connected to said running gear frame (105) via a lever (109) pivotably connected to said running gear frame (105) and said wheel unit bearing (108), said levers, under said nominal load of said wagon body (103), being arranged such that a rolling motion of said running gear frame (105) occurring about said longitudinal direction when traveling through a curved track section generates an alteration of an inclination of said lever (109) with respect to said longitudinal direction causing a steering motion of said wheel unit (104) about said height direction providing at least partially curve radial adjustment of said wheel unit (104). Each of said levers is formed as a wing element (109) pivotably connected to said running gear frame (105) and providing a receptacle receiving one of said wheel unit bearings (108).

IPC 8 full level

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