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RAIL VEHICLE

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VEHICULE SUR RAILS

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Abstract (en)
[origin: WO9958384A1] The invention relates to a rail vehicle (4) for operating on conventional railway tracks (2) which run underneath. Said vehicle has a body comprising a plurality of successively arranged, essentially rigid body segments (10, 12, 14) which are each supported on the track (2) by at least one wheel pair (8) and which have segment connections (16) on the ends thereof, said ends facing one another. The segment connections couple adjacent body segments to one another in an articulated and detachable manner, provide a continuation of the outer contour of the body segments (10, 12, 14) between the same, and compensate for distance when travelling on track curves, crowns or depressions. According to the invention, the body segments (10, 12, 14) comprise, in the longitudinal direction of the track (2), a constant hollow cross-section and a rigid overall length with which, in the area of the track curve having a minimum radius of 150 meters, each body segment (10, 12, 14) transversally projects over the track (2) on both sides with a respective length which is essentially constant along the railway vehicle (4). In addition, the segment connections (16) comprise coupling elements which are provided for the essentially exclusive transfer of the flow of force between the body segments (10, 12, 14). To this end, the segment connections extend on the front sides of the body segments along the outer contour thereof and/or are arranged on the front sides of the body segments (10, 12, 14) in a peripheral direction and in a homogeneously distributed manner.

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