

Title (en)
RUNNING GEAR UNIT WITH CROSS-COUPLED WHEEL UNITS

Title (de)
FAHRWERK MIT QUERGEKOPPELTEN RADEINHEITEN

Title (fr)
CHÂSSIS POURVU D'ENSEMBLES ROUE COUPLÉS TRANSVERSALEMENT

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Application
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Abstract (en)
[origin: WO2014170234A1] The present invention relates to a running gear unit, in particular for a rail vehicle, having a running gear frame (105), a first wheel unit (104.1) and a second wheel unit (104.2), wherein the running gear frame (105) is supported on the first wheel unit (104.1) and the second wheel unit (104.2) via a spring device, in particular a primary suspension system, and defines a longitudinal direction, a transverse direction and a vertical direction. The first wheel unit (104.1) and second wheel unit (104.2) are coupled to one another via a coupling arrangement (108) in such a way that, in the case of a first transverse displacement of the first wheel unit (104.1) with respect to the running gear frame (105) in the transverse direction, the coupling arrangement (108) generates a second, identically directed transverse displacement of the second wheel unit (104.2) with respect to the running gear frame (105) in the transverse direction. The coupling arrangement (108) comprises a hydraulic first actuator device (110.1), a hydraulic second actuator device (110.2) and a coupling device (111), wherein the first actuator device (110) acts between the first wheel unit (104.1) and the running gear frame (105), the second actuator device (110.2) acts between the second wheel unit (104.2) and the running gear frame (105), and the first actuator device (110.1) and the second actuator device (110.2) are arranged and hydraulically coupled to one another by the coupling device (111) in such a way that in the case of the first transverse displacement a first deflection of the first actuator device (110.1) takes place, and the second actuator device (110.2) is activated in order to generate the second transverse displacement.

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