

Title (en)
STEERABLE TWIST-BEAM REAR SUSPENSION

Title (de)
LENKBARE VERBUNDLENKERACHSE

Title (fr)
ESSIEU ARRIÈRE À TRAVERSE DE TORSION, DIRIGEABLE

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Application
EP 12753142 A 20120903

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Abstract (en)
[origin: WO2013037652A1] The invention relates to a twist-beam rear suspension for a wheel suspension of a motor vehicle. The twist-beam rear suspension comprises a twistable transverse profiled section (1) and one trailing arm (2, 3) connected to the transverse profiled section (1) at each end of the transverse profiled section (1). Each trailing arm (2, 3) has a wheel carrier (8, 9) which can be pivoted about a steering axis (10, 11). The wheel carriers (8, 9) are connected to one another by means of a tie rod (14) via ball joints (12, 13), and the wheel carriers are coupled to an actuator device (15) in order to generate a steering movement of the wheel carriers about the respective wheel carrier steering axis (10, 11). The twist-beam rear suspension is characterized by a kinematic coupling arrangement (17) that acts on the tie rod (14), said coupling arrangement (17) being designed to determine the degree of freedom of rotational movement (18) of the tie rod (14). The invention provides a twist-beam rear suspension with which the tie rod and the actuator device maintain an optimal kinematic definition, with respect to the minimization of toe differential angles or asymmetrical compression behavior, in all operating conditions.

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Citation (search report)
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