

Title (en)
VEHICLE

Title (de)
FAHRZEUG

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Application
EP 06818945 A 20061201

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Abstract (en)
[origin: WO2007062858A1] In a vehicle (1, 1', 1'', 1'''), in particular for robots, vacuum cleaners, lawnmowers or the like, having a chassis (3) which is supported on the underlying surface (2) by means of at least three wheels (4) which are attached thereto, having drive motors (7) which are respectively assigned to the individual wheels (4) and having at least one control device (21) by means of which the drive motors (7) can be activated separately from one another and/or together, the intention is that it will be possible to move and control said vehicle (1, 1', 1'', 1''') with structurally simple technical means without the direction of movement and the manoeuvring possibilities being restricted. The intention is that the direction of movement of the vehicle (1, 1', 1'', 1''') will be possible in a full circle, specifically from the position of rest and from the movement position. The resulting field of application for the vehicle (1, 1', 1'', 1''') will be largely independent of the surface quality of the underlying surface (2), in particular with regard to the gradient and the coefficient of friction of the underlying surface (2). Furthermore, a control device (21) for the movement of the vehicle (1, 1', 1'', 1''') would be provided, and by means of said control device (21) it is possible to set a movement coordination of the vehicle (1, 1', 1'', 1''') which can be calculated precisely. This is achieved by virtue of the fact that at least one of the wheels (4) is rotatably supported on the chassis (3) by means of an extension arm (11) which is embodied as an L-shaped profiled rail (31, 32), that the first profiled rail (31) is mounted so as to be pivotable about an axis (5) which is directed perpendicularly with respect to the underlying surface (2), and that in each case one of the wheels (4) is supported at a distance from the axis (5) by means of the second profiled rail (32).

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Citation (search report)
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