

Title (en)  
REMOTE CONTROL VEHICLE

Title (de)  
FERNGESTEUERTES FAHRZEUG

Title (fr)  
VÉHICULE COMMANDÉ À DISTANCE

Publication  
**EP 3717085 B1 20240228 (EN)**

Application  
**EP 18811615 A 20181121**

Priority  
• GB 201719934 A 20171130  
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Abstract (en)  
[origin: GB2568912A] A remote controlled vehicle comprises a first wheel 103 and a second wheel 105 offset along the longitudinal axis of the vehicle. The vehicle further comprises a device adapted to apply a torque to the first wheel 103, a sensor configured to monitor the pitch angle  $\Theta$  of the vehicle, and a control module 111. The control module is configured to control the torque applied by the device to the first wheel in accordance with the monitored vehicle pitch angle so as to accelerate the vehicle while maintaining the vehicle pitch angle within a range of acute angles. In this way the vehicle is able to maintain a wheelie while the vehicle is moving. Also disclosed is a second remote-control vehicle, comprising a steering system adapted to steer a first wheel, a sensor configured to monitor the roll angle of the vehicle and a control module configured to control the steering of the first wheel in accordance with the monitored vehicle roll angle while the vehicle is travelling so as to maintain the vehicle roll angle within a range of acute angles. In this way the vehicle is able to perform a skiing stunt. A third remote-control vehicle is also disclosed and comprises a control module configured to control the torque applied to a first wheel in accordance with a monitored vehicle pitch angle when the vehicle is in free fall so as to maintain the vehicle pitch angle within a specified range of angles. In this way the vehicle is able to maintain substantially level flight when the vehicle is mid-air after going over, for example, a jump.

IPC 8 full level  
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CPC (source: EP GB US)  
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