

Bogey with radial self-alignment of wheel pairs on curved sections of the track includes a frame with a pivot for connection with the vehicle body, springs of the axle stage of the suspension, axles connected by hinges to a cross beam, wheel pairs, leashes with hinges at the ends, while the lines connecting the centers of the hinges form an angle α with the longitudinal axes of the axles, identical rotary devices rigidly fixed to the frame, interacting with spherical pushers with axle bracket brackets. Moreover, it includes a control system with a plan of the operated section of the track, which includes a control unit and sensors of the movement and speed of the vehicle, which are electrically connected to each other and to the rotary devices. Each rotary device includes a ferromagnetic piston located in a ferromagnetic housing, surrounded by a control coil, and washers made of magnetorheological elastomer with central holes, between which disks made of ferromagnetic are located, and a rod and pusher made of non-magnetic material located in the holes of the piston and housing.