

Wagon-hoper for mineral fertilizers, the design of which consists of a car body module (1) containing two two-axle bogies, an automatic coupling module (2) with standard T1-class or higher couplers, a braking equipment module (3) with a separate pneumatic automatic brake for each bogie and a parking brake, a body module (4), a frame module (5), an unloading equipment module (20), a loading hatch locking system module (21), and an unloading hatch locking equipment module (22). The frame module (5) consists of a spine beam (12), end beams (17), kingpin beams (16), cantilever beams (18), and diagonal braces (19). The body module (4) consists of two side walls (6), two end walls (7), a roof (8), hoppers (9), loading hatch covers (10), and unloading hatch covers (11) with an internal anti-corrosion coating. To increase the fatigue strength of the hopper car frame and, consequently, extend its service life, the ridge beam (12) consists of two rectangular closed-section profiles (13) filled with energy-absorbing material (14) to absorb the energy of dynamic loads and covered on top and bottom with horizontal plates (15).