

The invention relates to the transport mechanical engineering and may be used in the transmission of the crawler and wheel machines with elastic built-in element, increasing the general twisting flexibility of the transmissions.

The transmission of a transport facility contains a clutch, a step-down gear, a gear-box, a final-drive wheel and a final drive pinion, vehicle-borne gears and damping devices, kinematically bound between them. One of the damping devices is mounted onto the clutch shaft with the possibility of axial displacement and includes a thrust bush, that comes into contact with the spring-loading assembly thereof, fixed onto the shaft with the help of a thread, in such case the external surface of the bush is coupled with the step-down gear hub by means of a gear coupling. The other damping device is mounted with the possibility of axially displacing onto the shaft, coupling the final-drive wheel and the vehicle-borne gears, and includes the thrust bush, that comes into contact with the spring-loading assembly thereof, fixed onto the shaft with the help of a gear coupling, and the internal surface of the bush is coupled with the final-drive wheel hub by means of a thread. The spring-loading assembly of each of the damping devices is made in the form of a disk-spring pack. The thread on each of the thrust bushes is made with trapezoidal profile, having the thread inclination smaller than the friction angle.

The result of the invention consists in decreasing the dynamic loads.