

The proposed electromagnetic driver can be used in different electrically-driven vehicles. The driver contains a spiral power winding, which is connected to the power-supply source, a magnetic core, and a magnetic field source. The magnetic field source is designed as a permanent magnet or an electromagnet. The magnetic core consists of two sections, which are made of ferromagnetic material. The magnetic field source is installed between the sections of the magnetic core. The power winding is installed at one of the poles of the magnetic core. The design of the power winding provides that the vector of current in the winding is positioned at an angle to the vector of the magnetic field density that is generated by the magnetic field source. The proposed driver provides a possibility to exclude movable elements in producing and transferring traction force for moving the vehicle.