

The invention relates to wind energy, namely to wind systems for converting the air flow energy opposed to the oncoming vehicle into electrical energy and for aerodynamic braking thereof.

The system, according to the invention, comprises an air intake of rectangular section, installed on vehicle roof and in which are transversely evenly mounted at least two windwheels, the shafts of which are connected to the rotors of reversible electric machines, the ends of the windings of which are interconnected and to an electric energy storage device. The system also comprises an automatic voltage control device to connect the windings of reversible electric machines in generator mode in parallel, in the case of high speed of rotation of the windwheels, or in series, in the case of low speed of rotation thereof. The reversible electric machines are made with the possibility of converting the air flow energy into electrical energy in generator mode, as well as of aerodynamic braking of vehicle by setting in rotation in reverse direction the windwheels in motor mode.

Claims: 1

Fig.: 1