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(54) Title: ON-ROAD ENERGY CONVERSION AND VIBRATION ABSORBER APPARATUS

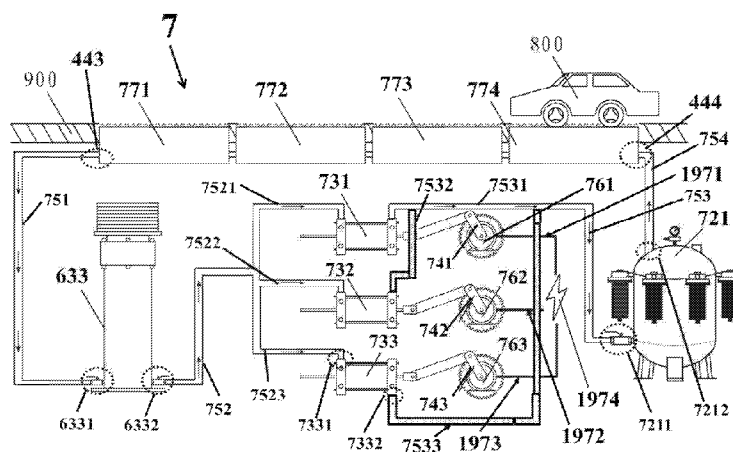


FIG. 7

(57) Abstract: An on-road energy conversion and vibration absorber apparatus receives the kinetic energy from moving vehicles (100) and pedestrians when being weighed down, and converts the received kinetic energy into a potential energy using a restorable elastic element (218) compressing a fluid thereby storing the potential energy in a pressure chamber (210), and then conducts the pressurized fluid to pass through a check valve (250) along a conduit (260) and drive a vane wheel (400) by releasing its potential energy. The vane wheel (400) in turn drives a generator (500) to generate electric energy, and the vibration of the vehicles (100) is alleviated by cushion effect provided by the apparatus.