

(54) Title of the invention : SYSTEM AND METHOD FOR GENERATING ELECTRIC POWER FROM ROAD VEHICLE

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(57) Abstract :

The proposed invention discloses a device for power generation by converting mechanical energy created by the moving vehicle tires into electrical energy. It includes the frame of cuboid shape made with cast iron or stainless steel. The device consists of (a) cylinders (102), (b) piston (103) inside each cylinder, and (c) a piezoelectric plate (105) at the bottom of each cylinder. The device is attached to a turbine (104) to generate electricity from the pressure caused by the compressed air in the cylinder(s). Thus, the mentioned process forms a pneumatic system. In addition, the pressure on the piezoelectric plate increases, and electric power will generate at the plate. This electric power can be stored in a battery, attached to the device. Thus, the mentioned process forms a piezoelectric system.

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