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(57) Abstract :
The invention discloses a device for recovering energy from vehicle suspension systems. It includes a suspension linkage (100), motion conversion assembly (101), electromagnetic generator (102), energy storage module (103), and control circuitry (104). Suspension vibrations are converted into rotational motion, which drives the generator to produce electricity. The generated power is stored and regulated for use in vehicle electrical systems. The invention improves fuel efficiency, reduces emissions, and provides a renewable source of power for both conventional and electric vehicles.

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