

ABSTRACT

TUNABLE VIBRATION ABSORPTION DEVICE

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A tunable vibration absorption device is provided that is suitable for active or semi-active vibration absorption or damping of vibrations in vibrating structures. It comprises a stack including a force actuator mechanism for generating an axial actuation force and a force sensor mechanism which is responsive to an external
10 force acting on the stack to generate a force signal. A controller unit is electrically connected to the force sensor mechanism for receiving the force signal generated by the force sensor mechanism, and it is also electrically connected to the force actuator mechanism for adjusting the axial actuation force generated by the force actuator mechanism in response to the received force
15 signal generated by the force sensor mechanism.

(FIG. 1)