

ABSTRACT

PASSIVE DAMPING OF VIBRATIONS **IN A SUPPORT STRUCTURE**

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A support structure supporting a movable component is provided with a vibration damper in the form of at least one cavity in the structure, the cavity being filled with a composite material; preferably a composite material of about 80% butyl rubber and 20 % carbon particles. The composite material is preferably bonded to the cavity walls by adhesive or mechanically coupled by a texture on the cavity walls. The rubber composite may be first moulded then inserted into the cavity or may be injected into the cavity and moulded by the cavity. The cavities may be provided with a vent to facilitate insertion or injection of the composite material.

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(Fig. 2)