

Title (en)

APPARATUS FOR VIBRATIONS ATTENUATION USING ELECTRONIC AND ELECTROMAGNETIC ACTUATION

Title (de)

VORRICHTUNG ZUR SCHWINGUNGSDÄMFUNG, ELEKTRISCH UND ELEKTROMAGNETISCH BETÄTIGT

Title (fr)

APPAREIL SERVANT A ATTENUER LES VIBRATIONS PAR ACTIVATION ELECTRONIQUE ET ELECTROMAGNETIQUE

Publication

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Application

EP 00922311 A 20000222

Priority

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- US 12109599 P 19990222

Abstract (en)

[origin: WO0049309A2] A vibration and noise canceling system includes an electromagnetic vibration canceling actuator (21) and an electronic control system (16). The vibration canceling actuator (21) includes a permanent magnet (6) in proximity with a flux collector (4, 10). The flux collector has a gap between through which the magnet magnetic field of the magnet is directed. Current directed to flow through a coil or set of coils (8) wound on a coil form (9) within the gap generates a magnetic field that is used to move the actuator mass comprise of the flux collector and the magnet so as to create vibration or noise canceling destructive interference. The driving current is provided by the electronic control system (16) and amplifier. The electronic control system receives input from a variety of sensors (14, 19, 22) which could include noise (19) and vibration sensors (14). The sensors may provide feedforward and feedback information. The controller may include adaptive control algorithms.

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F16F 13/00

IPC 8 full level

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