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(71) Applicant: SPERRY MARINE INC. [US/US]; 1070 Seminole Trail, Charlottesville, VA 22901 (US).

(72) Inventor: LAHHAM, Jamil, I.; 5015 Cedar Drive, Ruckersville, VA 22968 (US).

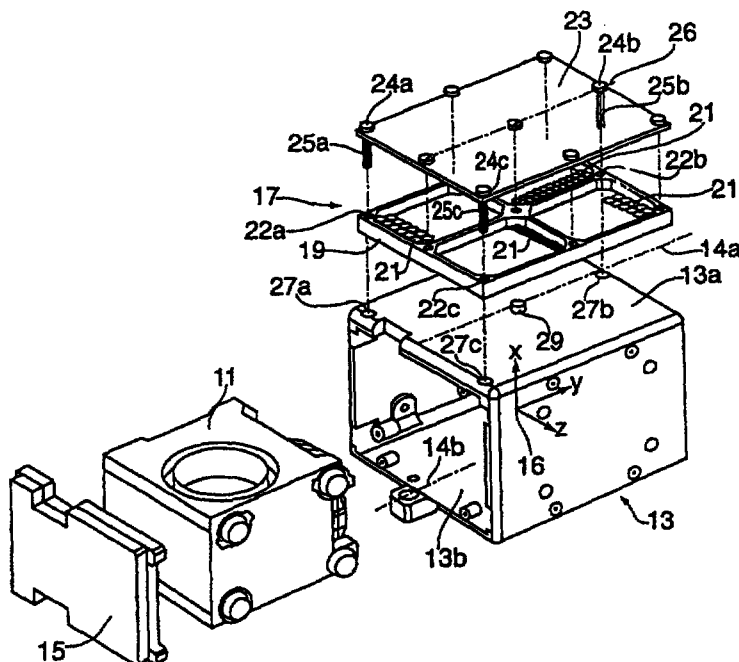
(74) Agent: LEVINE, Seymour; 9B Weavers Hill, Greenwich, CT 06831 (US).

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(57) Abstract

A tuned additive mass (17) to a body (13) subjected to forced vibrations that reduces the vibration amplitudes. The mass is coupled to the body in a manner that establishes a node at the previous maximum response of the body to the applied forces. The mass is constructed to respond in a spring like manner so that vibration frequencies of the mass are tunable to provide counter vibrations in the vibration frequency band. Vibration amplitude reduction is established by vibrations of the mass that are in phase opposition to the vibrations of the body.