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(71) Applicant (for all designated States except US): **EATON CORPORATION** [US/US]; 1111 Superior Avenue, Cleveland, OH 44114-2584 (US).

(72) Inventor: **YUAN, Qinghui**; 6879 Timber Crest Drive, Maple Grove, MN 55311 (US).

(74) Agent: **QUINN, Christopher W.**; Quinn Law Group, PLLC, 39555 Orchard Hill Place, Suite 520, Novi, MI 48375 (US).

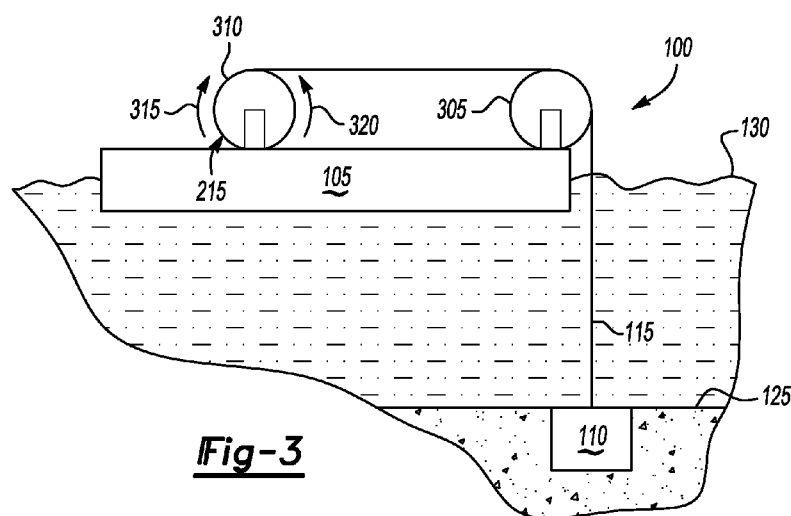
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(54) Title: ACTIVE HEAVE COMPENSATION WITH ACTIVE DAMPING CONTROL



(57) Abstract: A damping control system (120) includes a first sensor (205) configured to detect movement of a vessel (100) and generate a first signal representing the vessel (100) movement and a second sensor (210) configured to detect movement of a cable (115) and generate a second signal representing the cable (115) movement. An actuator (215) is configured to dampen a force applied to a payload (110) during a force event. The force event is at least partially caused by the movement of the vessel (100) and the cable (115). A controller (220) is configured to identify the force event based at least in part on the first and second signals and control the actuator (215) during the force event to substantially dampen the force applied to the payload (110).