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(54) Title: DYNAMIC ACTIVE CONTROL SYSTEM WITH ENGINE CONTROL

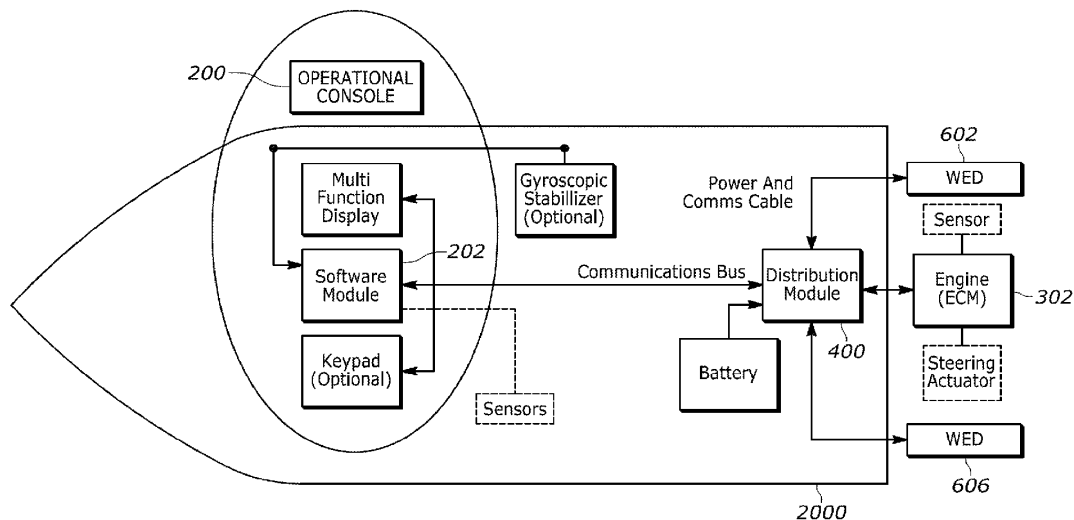


FIG. 1

(57) Abstract: A dynamic active control system (DACS) configured for: (1) total vessel pitch axis control by fast symmetric deployment of water engagement devices (WEDs) or controllers, coupled with engine trim adjustments; (2) total roll and heading control by differentially deploying WEDs to counter rolling motions while simultaneously adjusting engine steering position to counter the steering moment associated with WED delta position; and (3) adjustment of the engine steering angle to counter yaw moments produced by gyroscopic stabilization systems.

[Continued on next page]

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