

Title (en)

OSCILLATION SUPPRESSION AND CONTROL SYSTEM FOR A FLOATING PLATFORM

Title (de)

SCHWINGUNGSUNTERDRÜCKUNGS- UND -STEUERSYSTEM FÜR EINE SCHWIMMENDE PLATTFORM

Title (fr)

SUPPRESSION DE L'OSCILLATION ET SYSTEME DE COMMANDE D'UNE PLATE-FORME FLOTTANTE

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Application

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Abstract (en)

[origin: WO2006052234A1] In accordance with the present invention, an oscillation suppression system is provided to inhibit vertical and rotational resonance of a floating platform. The oscillation suppression system includes energy absorption chambers mounted in or about the hull of the floating platform. The chambers may be separately attached or integrated as part of the structure. The chambers are comprised of gas in an upper portion, and water mass in a lower portion. The chambers are closed or partially vented at the upper ends and open at their bottom ends. The enclosed gas in the upper portion of the chamber acts as a gas spring reacting against the floating platform and the water mass. The suppression of resonant oscillations of the floating platform system is accomplished through the gas-spring pressure changes acting on the floating platform system in phase opposition to external forces.

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