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[54] SUBMARINE DEPLOYED SEA-STATE SENSOR

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[51] Int. Cl.⁶ **G01W 1/00**

[52] U.S. Cl. **73/70.34; 73/170.29; 367/134**

[58] Field of Search **73/170.29, 170.31, 73/170.33, 170.34**

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[57] ABSTRACT

A submarine deployed sea-state sensor comprises an elongated housing having a nose cone and an aft end, the housing having a forward buoyant chamber for receiving an accelerometer. Aft of the buoyant chamber, a damping assembly communication link deployment means and a lifting body are provided. Both the damping assembly and the lifting body are attached to a communication link interconnecting the accelerometer and a submerged platform so that, when the portion of the communication link between the lifting body and the submerged platform becomes taught, the lifting body is pulled from the housing. The damping assembly includes a motion damping body mounted on the buoyant chamber through an extendable telescoping arm. The extension of the arm is controlled by a pressure release spring, so that, when the sensor reaches a selected depth the telescoping arm will extend to project the motion damping body aftwardly.

6 Claims, 3 Drawing Sheets

