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[54] **ZERO VELOCITY TOWED ARRAY SYSTEM**

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[57] **ABSTRACT**

A zero velocity towed array system for use in an ocean environment includes a towed array subsystem and a deployment vessel. The towed array subsystem comprises a rear drogue, an elongated communication cable having mounted thereon at least one acoustic sensor. The deployment vessel deploys the towed array subsystem. While the deployment vessel moves in a forward direction through the ocean environment at a selected forward motion rate, it deploys the acoustic sensor and communication cable rearwardly at a deployment rate corresponding to the forward motion rate, thereby to maintain the acoustic sensor and communication cable in a stable position in the ocean environment.

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[51] Int. Cl.⁶ **G01S 3/80**

[52] U.S. Cl. **367/130**

[58] Field of Search 367/130, 106,
367/16, 20; 114/242

[56] **References Cited**

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7 Claims, 1 Drawing Sheet

