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# United States Patent [19]

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Buffman et al.

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## [54] SUBMERGIBLE TOWED BODY SYSTEM

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## [57] ABSTRACT

A submergible towed body system carries an acoustic transmission/reception device under the surface of the water and relays signals between the acoustic transmission/reception device and a surface platform. An elongated support frame has upper and lower horizontal frame sections maintained in a parallel spaced apart relationship by a plurality of vertical frame supports. A float is attached on top of the upper horizontal frame section and a tow point depends from the upper horizontal frame section. Attached to the upper and lower horizontal frame sections is a combination tilt and pan mechanism that allows the acoustic transmission/reception device to pan through a prescribed horizontal angle and tilt through a prescribed vertical angle. Circuitry is mounted between the upper and lower horizontal frame sections and aft of the tilt and pan mechanism for electrically connecting the surface platform to the acoustic transmission/reception device.

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[51] Int. Cl.<sup>6</sup> ..... **B63B 21/66**

[52] U.S. Cl. .... **114/244; 114/312**

[58] Field of Search ..... **114/242, 244, 114/245, 253, 312, 313, 322, 330, 331, 357, 123; 441/74; 367/13, 16, 910**

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**14 Claims, 2 Drawing Sheets**

