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## **United States Patent** [19]

### Elholm

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[54]	DEVICE AND METHOD FOR POSITIONING
	OF TOWING SYSTEMS FOR USE IN
	MARINE SEISMIC SURVEYS

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[21] Appl. No.: 194,377

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[30]	Foreign Application Priority Data
Feb.	23, 1993 [NO] Norway 93064
[51]	Int. Cl. <sup>6</sup> G01V 1/38; B63B 21/66
[52]	<b>U.S. Cl. 367/16</b> ; 114/244; 367/20
[58]	Field of Search
	367/20 106: 114/244 245 246

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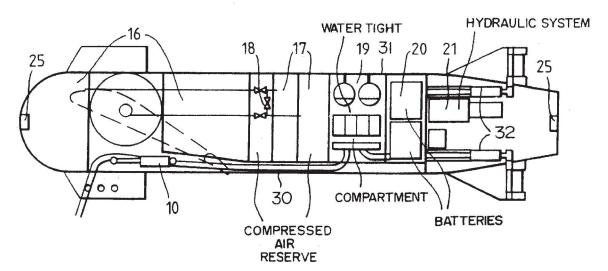
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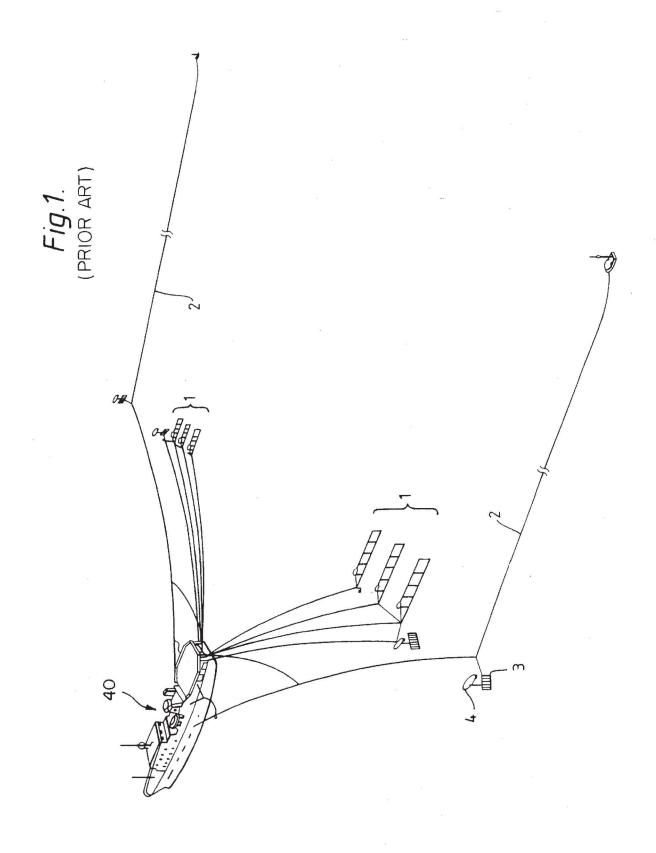
Primary Examiner-Charles T. Jordan Assistant Examiner-Theresa M. Wesson Attorney, Agent, or Firm-Jacobson, Price, Holman & Stern

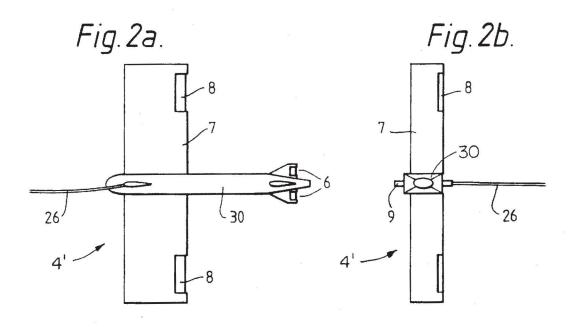
#### [57] **ABSTRACT**

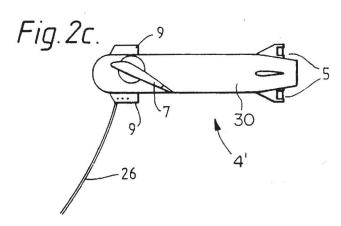
A positioning device for seismic equipment which is towed by a seismic vessel is designed with a body part which is equipped with wings (7) and rudders (8, 6, 9, 5). For the control of wings (7) and rudders (8, 6, 9, 5) control means, preferably hydraulic or electrical means are used. The device further comprises a control unit for processing of signals which preferably operate exclusively on the basis of information from the vessel or the ship, instruments for use in the positioning of the device and a communication system for the communication between the vessel and the device and vice versa, preferably electrical, acoustic or optical. It is further equipped with attachment devices for one or more cables (26) and floats, which are preferably provided at the front of the device, and preferably in the vicinity of the wing's (7) attachment point to the device's body part as well as a power supply system.

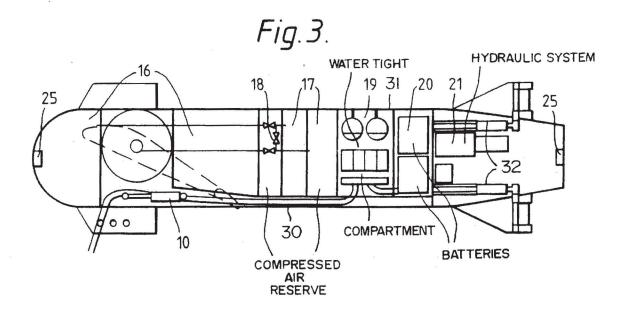
### 24 Claims, 5 Drawing Sheets

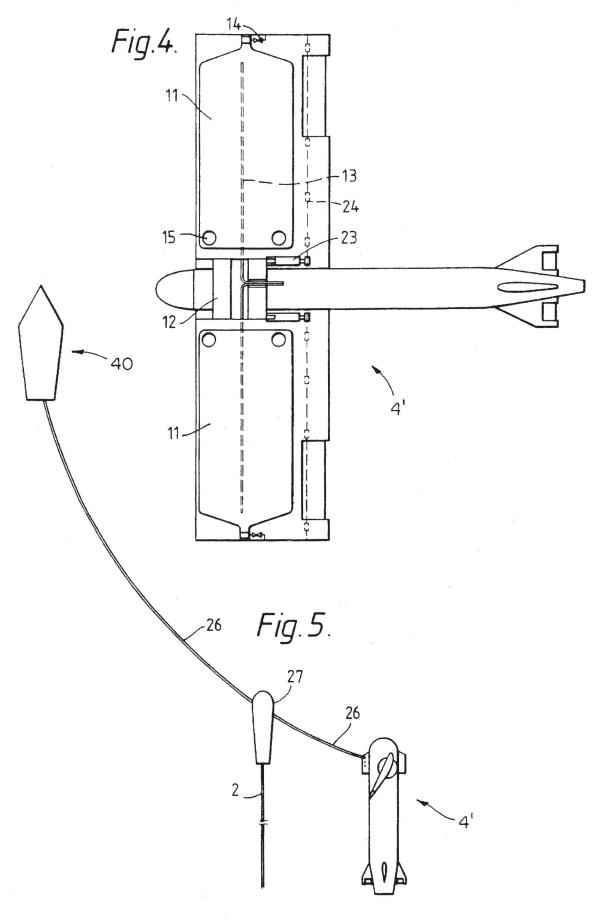


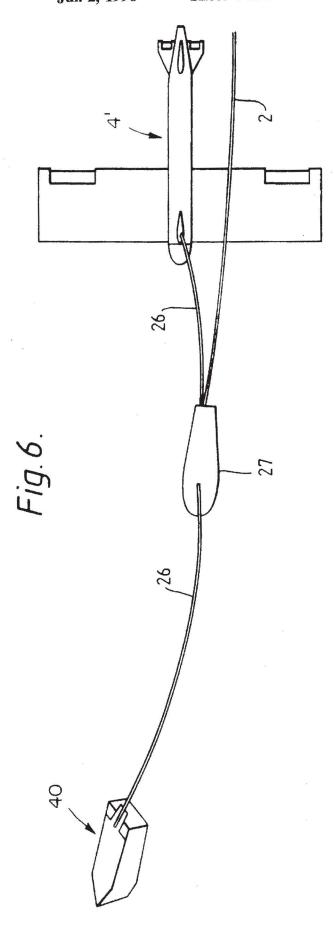












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