## Ex. PGS 1037





**Patent Number:** 

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6,011,753

## United States Patent [19]

Chien **Date of Patent:** Jan. 4, 2000 [45]

[11]

[54]	CONTROL AND MONITORING OF DEVICES EXTERNAL TO A MARINE SEISMIC STREAMER		
[75]	Inventor: Loring C. Chien, Katy, Tex.		
[73]	Assignee: Syntron, Inc., Houston, Tex.		
[21]	Appl. No.: 09/044,740		
[22]	Filed: Mar. 19, 1998		
[52]	Int. Cl. <sup>7</sup>		
[56]	References Cited		

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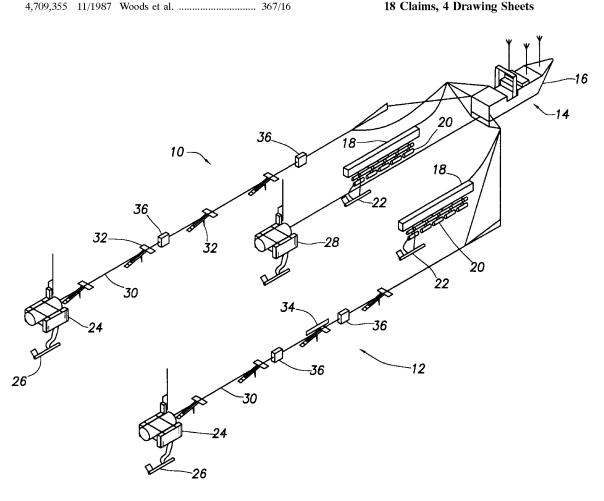
Primary Examiner—Christine Oda Assistant Examiner—Anthony Jolly

Attorney, Agent, or Firm-Gunn & Associates, P.C.

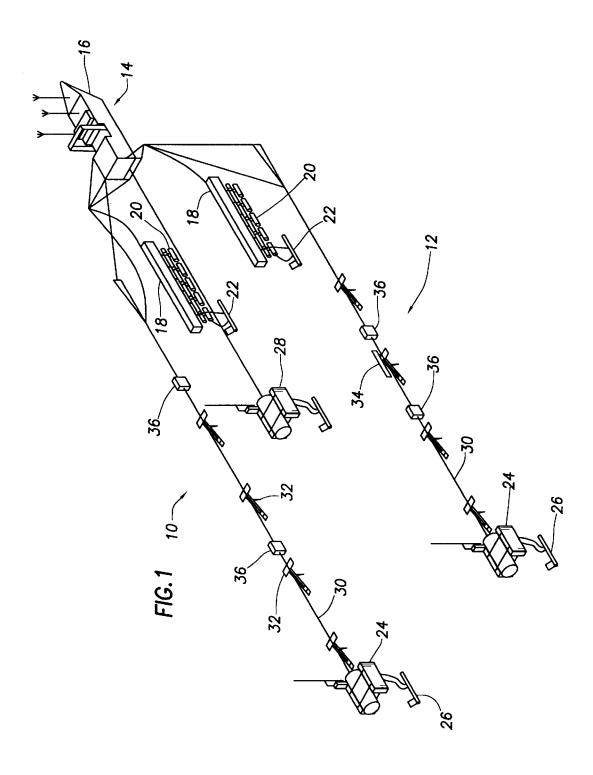
#### [57] **ABSTRACT**

A technique and a system provide control and monitoring of devices external to a marine seismic streamer by segmenting the conductor to which the external devices are coupled. The module which connects sections of the seismic data telemetry cable is modified to include a switch. The switch is controlled by a command signal on the seismic data telemetry cable to segment the twisted pair bus into a plurality of dedicated busses, each dedicated to a subset of the external devices, such as one or two such devices. In this way, the external devices can be communicated with in parallel, rather than in series as in conventional systems.

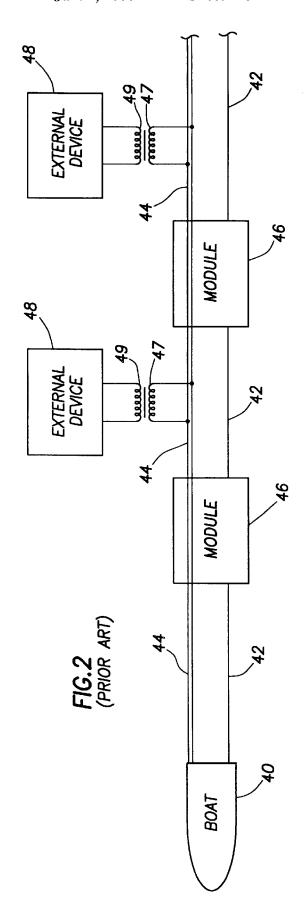
#### 18 Claims, 4 Drawing Sheets

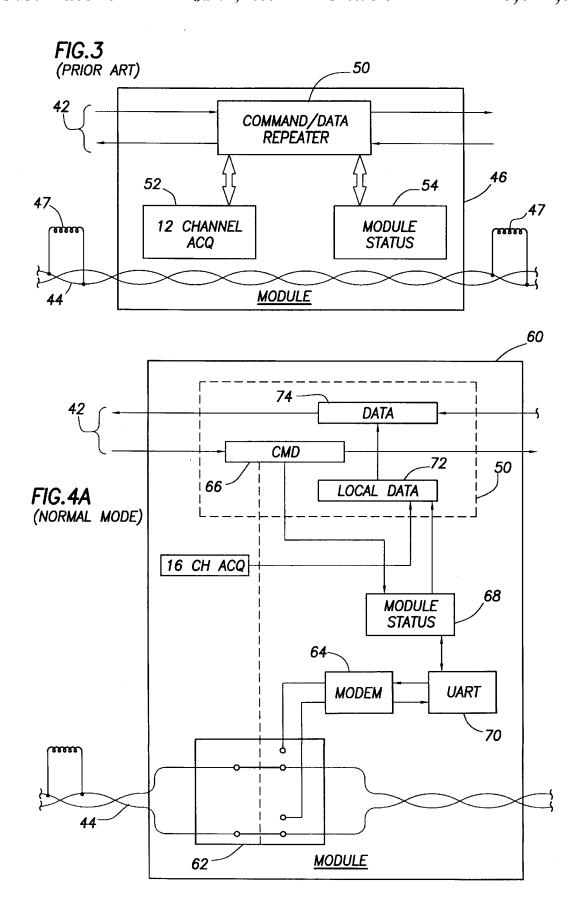












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