# US00601

### United States Patent [19]

US006011752A

# [11] Patent Number: 6,011,752 [45] Date of Patent: Jan. 4, 2000

### Ambs et al.

#### [54] SEISMIC STREAMER POSITION CONTROL MODULE

- [75] Inventors: Loran D. Ambs, Fulshear; Ronald E. Chambers, Houston, both of Tex.
- [73] Assignce: Western Atlas International, Inc., Houston, Tex.
- [21] Appl. No.: 09/128,336
- [22] Filed: Aug. 3, 1998
- [51] Int. Cl.<sup>7</sup> ...... G01V 1/00
- [52] U.S. Cl. ...... 367/17; 114/235; 114/244;

### [56] References Cited

#### U.S. PATENT DOCUMENTS

3,943,483 3/1976 Strange ..... 114/235

4,694,435	9/1987	Magnesville 367/17
5,443,027	8/1995	Owsley et al 114/244

Primary Examiner—Christine K. Oda Assistant Examiner—Anthony Jolly

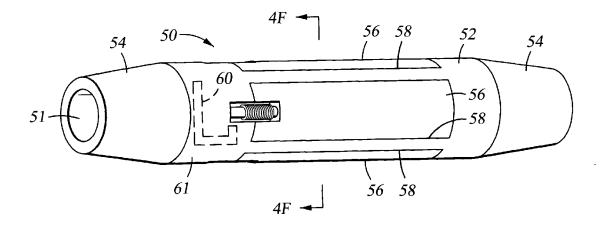
### [57] ABSTRACT

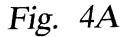
A seismic streamer position control module has been invented having a body with a first end and a second end and a bore therethrough from the first end to the second end for receiving a seismic streamer therethrough, at least one control surface, and at least one recess in which is initially disposed the at least one control surface, the at least one control surface movably connected to the body for movement from and into the at least one recess and for movement, when extended from the body, for attitude adjustment. In one aspect the seismic streamer position control module body has tapered ends.

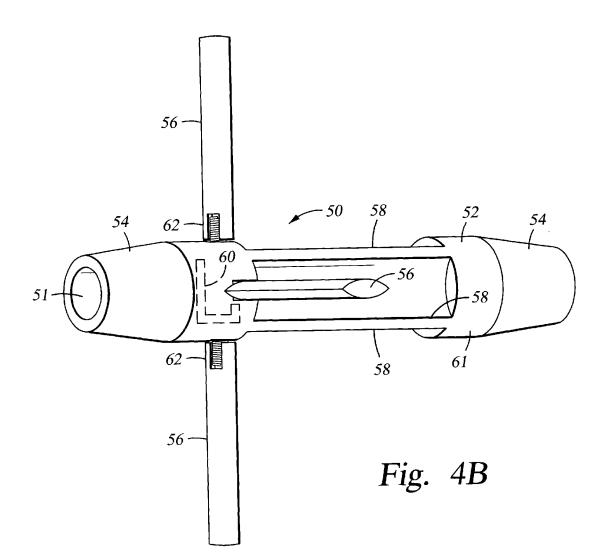
### 20 Claims, 5 Drawing Sheets

S 14 24 22 22 10 S 12 12

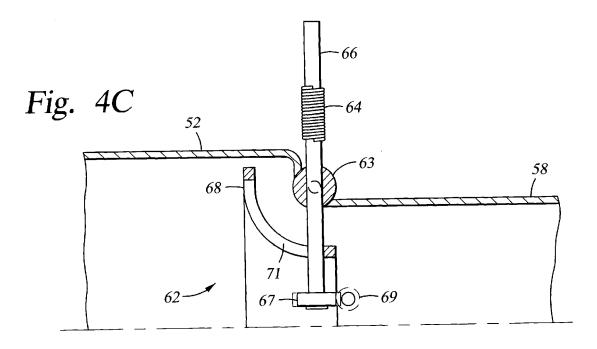
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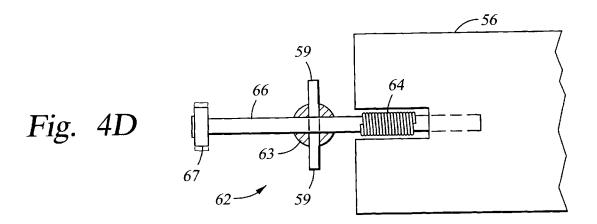


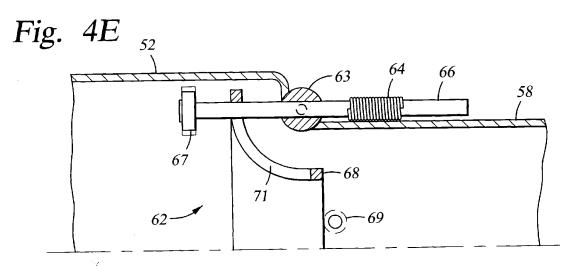




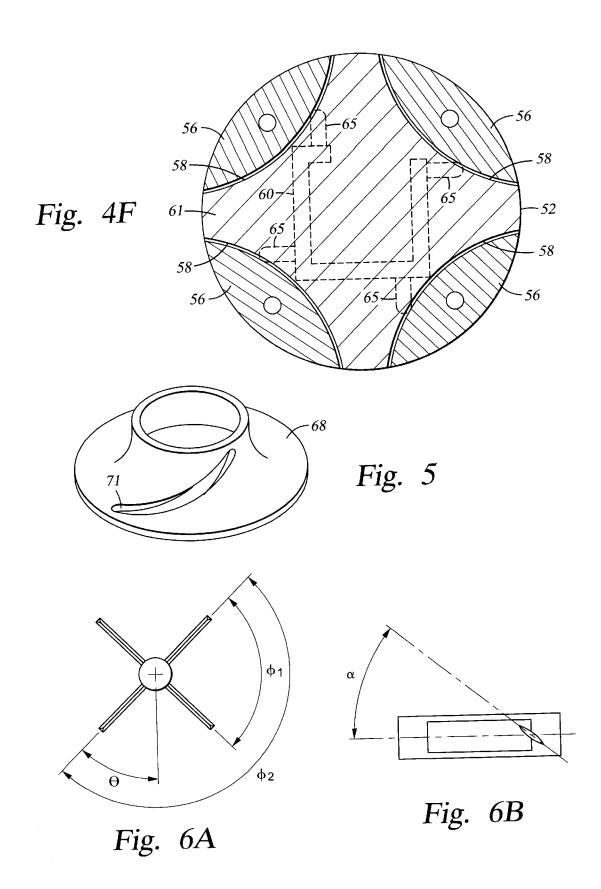
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