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.⁷ 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

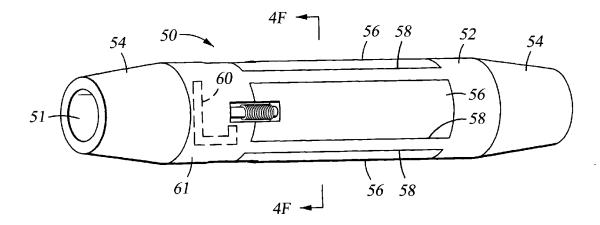
[57] ABSTRACT

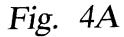
A seismic streamer position control module has been invented having a body with a first end and a second end and a bore therethrough from the first end to the second end for receiving a seismic streamer therethrough, at least one control surface, and at least one recess in which is initially disposed 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.

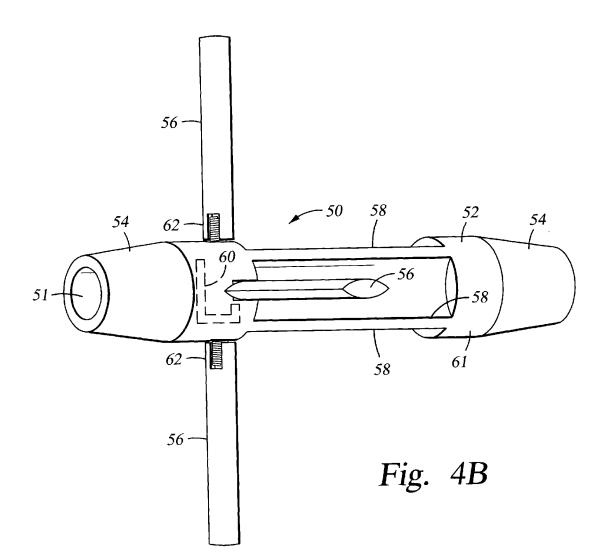
20 Claims, 5 Drawing Sheets

S 14 24 22 22 10 S 12 12

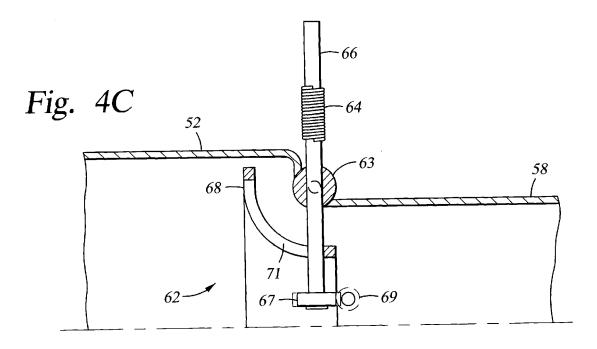
Α

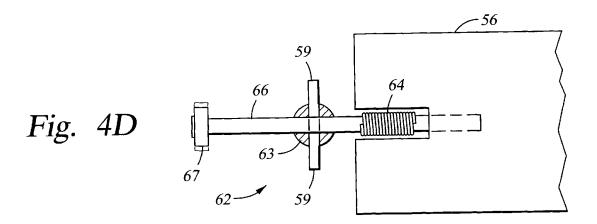


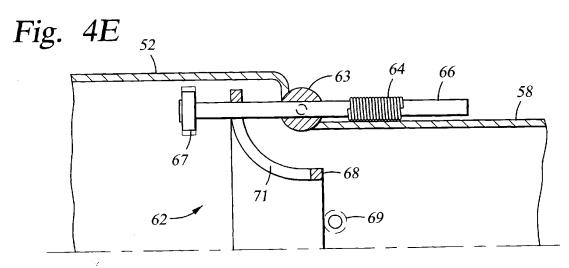




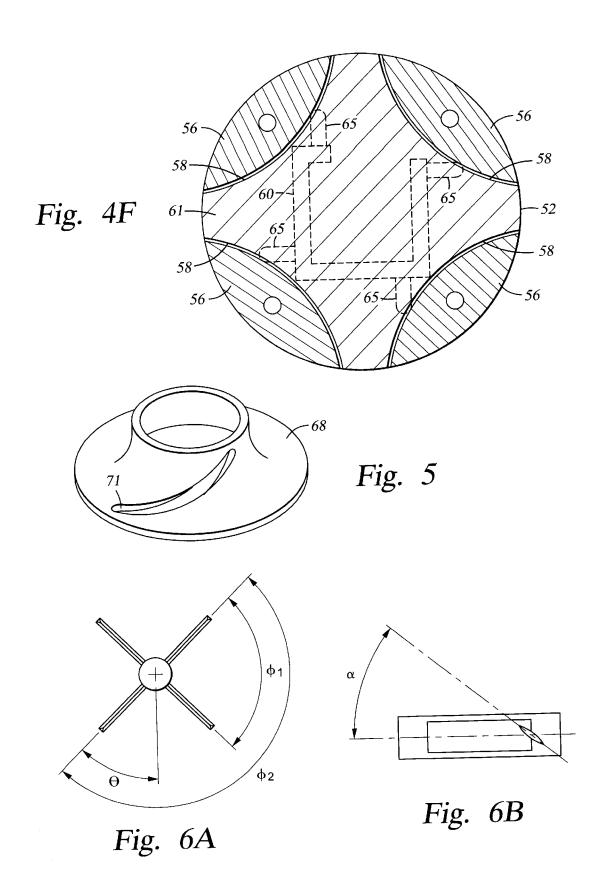
OCKET LARM Find authenticated court documents without watermarks at <u>docketalarm.com</u>.







DOCKET A L A R M Find authenticated court documents without watermarks at <u>docketalarm.com</u>.



DOCKET A L A R M



Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.