United States Patent

[54] MARINE SEISMIC EXPLORATION

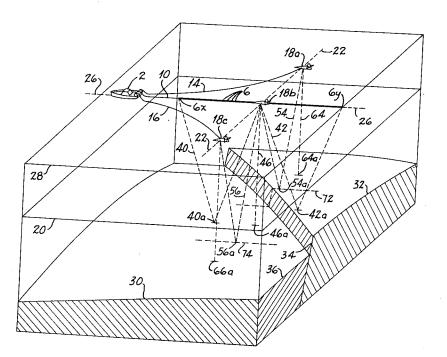
13 Claims, 13 Drawing Figs.

[72]	Inventor	Ronald M. Hedberg
		18 Whittier St., Cambridge, Mass. 02140
[21]	Appl. No.	875,510
[22]	Filed	Nov. 10, 1969
[45]	Patented	May 25, 1971
		Continuation of application Ser. No.
		645,643, June 13, 1967.

		Ballard Kilmer et al	340/7 340/7		
Primary ExaminerRichard A Farley					

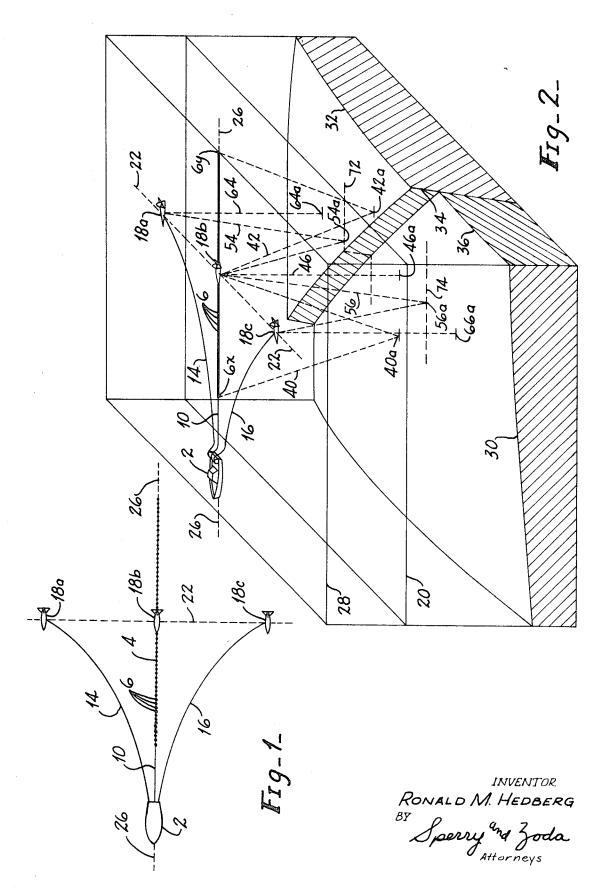
Primary Examiner—Richard A. Farley Assistant Examiner—Daniel C. Kaufman Attorney—Sperry and Zoda

ABSTRACT: Continuous marine seismic explorations are carried out by providing echo detecting means with control means for maintaining the echo detecting means in fixed or predetermined positions and at spaced points in two dimensions of a horizontal plane, and by generating echo producing impulses at one or more spaced points located in fixed or predetermined relative positions with respect to each other and in said plane. In this way, a set of records may be obtained which define the seismic interfaces of the prospect under survey in two intersecting vertical planes. Thereafter, by producing successive sets of such records, quadratic surfaces in which the true inclinations of interfaces may be determined over an extended area are obtained in a single traverse thereof. At the same time, the accuracy of the records obtained is materially increased.

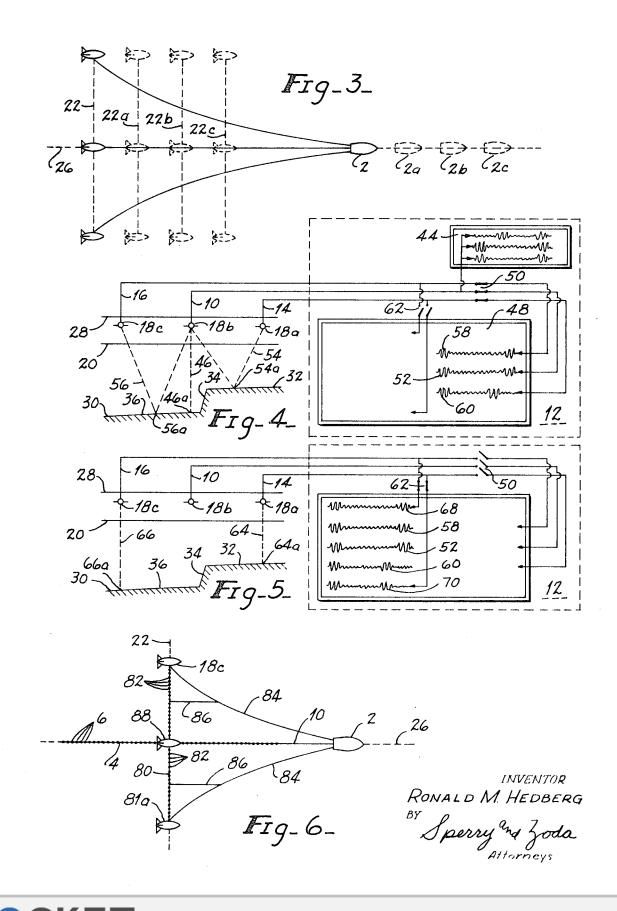


DOCKET A L A R M Find authenticated court documents without watermarks at <u>docketalarm.com</u>. PATENTED MAY 25 1971

SHEET 1 OF 5



DOCKET A L A R M Find authenticated court documents without watermarks at <u>docketalarm.com</u>. SHEET 2 OF 5

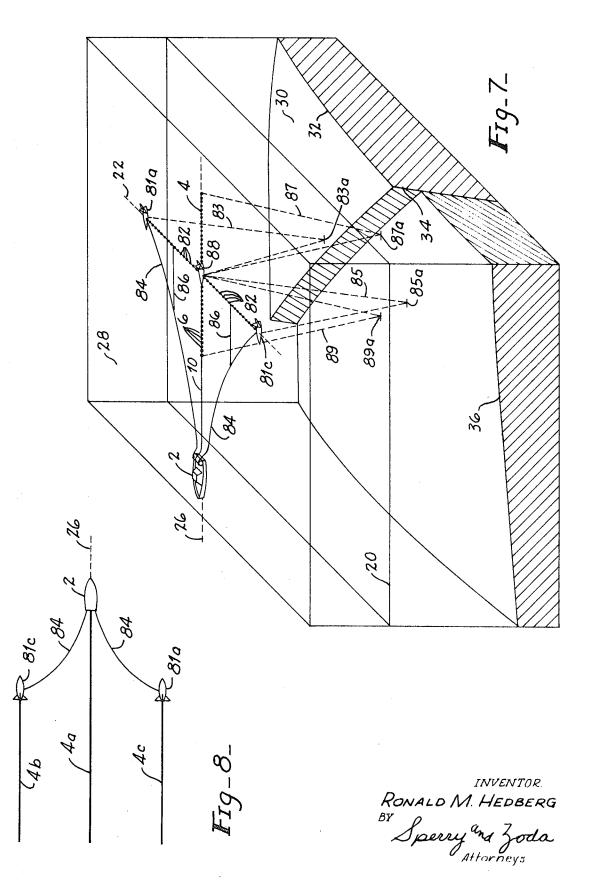


CKET LARM Find authenticated court documents without watermarks at <u>docketalarm.com</u>.

Α

PATENTED MAY 25 1971

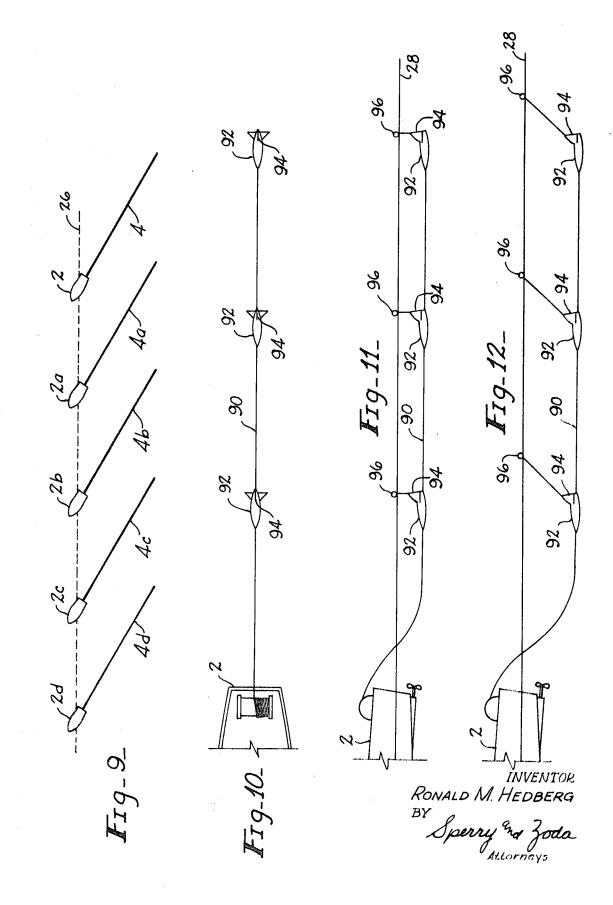
SHEET 3 OF 5



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

D

Α



DOCKET ALARM Find authenticated court docum

Find authenticated court documents without watermarks at docketalarm.com.

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.