

ABSTRACT OF THE DISCLOSURE

METHOD FOR SEPARATING UP AND DOWN PROPAGATING PRESSURE AND VERTICAL VELOCITY FIELDS FROM PRESSURE AND THREE-AXIAL MOTION SENSORS IN TOWED STREAMERS

A measured pressure field, a measured vertical velocity field, and two measured orthogonal horizontal velocity fields are obtained. A programmable computer is used to perform the following. A scaling factor is determined from water acoustic impedance, the measured pressure field, and the horizontal velocity fields. One of the measured pressure field and measured vertical velocity field is combined with one of the measured vertical velocity field scaled by the scaling factor and the measured pressure field scaled by the scaling factor, generating one of up-going and down-going pressure and velocity wavefields.

FIG. 2



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