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(54) Title: INTERFEROMETRIC SEISMIC DATA PROCESSING FOR A TOWED MARINE SURVEY

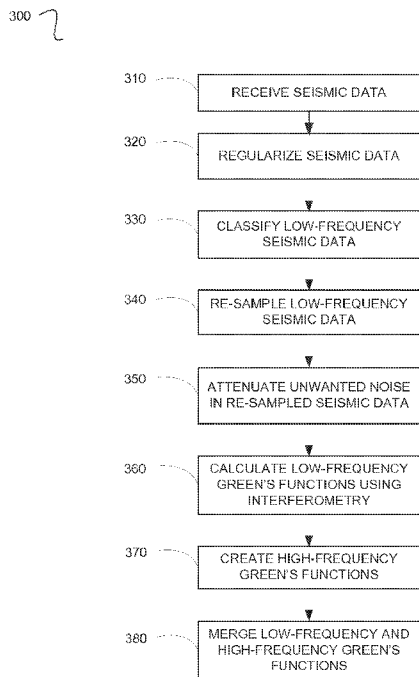
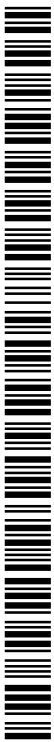


FIG. 3

(57) Abstract: A method for processing seismic data. The method includes receiving the seismic data acquired at two or more sensors on a towed marine survey and regularizing the received seismic data into a spatial domain. After regularizing the seismic data, the method includes classifying the regularized seismic data below and equal to a predetermined frequency as low-frequency seismic data. The method then calculates a set of low-frequency Green's functions using interferometry on the low-frequency seismic data described above. The method then processes high-frequency seismic data of the seismic data to create a set of high-frequency Green's functions at one or more source locations of the towed marine survey. The method then merges the set of low-frequency Green's functions and the set of high-frequency Green's functions to create a set of broad-band Green's functions at the source locations.



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eKOMPASS(KIPO internal) & Keywords: seismic, receiver, determining, green, function, array and similar terms.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2005-0190649 A1 (EISNER, L. & PRIMIERO, P.) 01 September 2005 See the whole document.	1-20
A	US 2010-0067328 A1 (CURTIS, A.) 18 March 2010 See the whole document.	1-20
A	US 2008-0130411 A1 (DAHL, S. B. & HORNBLY, B. E.) 05 June 2008 See the whole document.	1-20
A	US 2006-0253759 A1 (WEI, K.) 09 November 2006 See the whole document.	1-20

 Further documents are listed in the continuation of Box C. See patent family annex.

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