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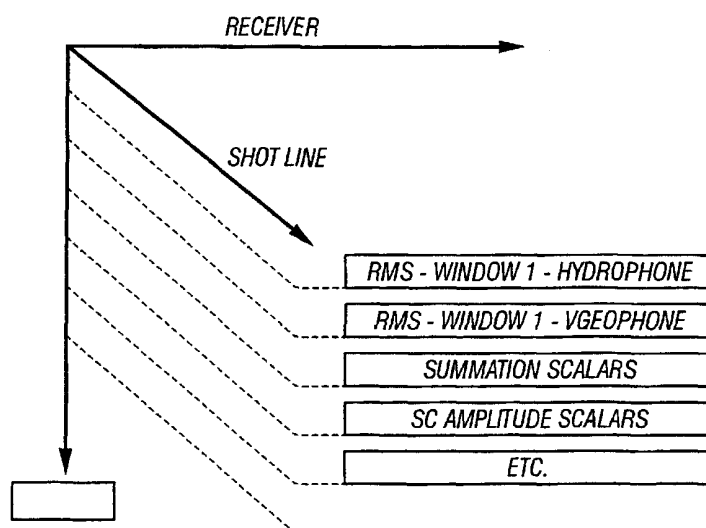
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(54) Title: QUALITY CONTROL CUBE FOR SEISMIC DATA



(57) Abstract: Attributes of a seismic data set that are indicative of the quality of the seismic data are displayed in a quality control (QC) hypercube. The axes of the hypercube may be the source position, the source line, the receiver position and a processing step. In a pre-migration QC cube, two of the three axes of the cube are defined by the locations of seismic data. In a migrated QC cube, two of the three axes are defined by the migrated output bin position of processed seismic data. The third axis of the cube contains information about the quality of the data. The QC attributes may be simple amplitudes, or they may be attributes derived from the amplitudes of the seismic data, such as RMS values and/or spectral values. In a migrated QC cube, the attributes may include seismic velocity, seismic fold and distribution of source-receiver azimuths.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01V1/34

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01V

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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X	US 5 671 136 A (WILLHOIT JR LOUIS E) 23 September 1997 (1997-09-23) column 21, line 1 - line 14 column 24, line 34 - line 67	1,2,5,7, 16-18
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *&* document member of the same patent family

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