

Title (en)

METHOD AND APPARATUS FOR DIGITIZING THE MAXIMUM AMPLITUDE AND TIME OCCURRENCE OF AN ACOUSTIC SIGNAL

Publication

**EP 0129953 A3 19860625 (EN)**

Application

**EP 84302033 A 19840327**

Priority

US 50736983 A 19830624

Abstract (en)

[origin: EP0129953A2] Digitizing and transmitting the maximum amplitude and time of occurrence of an analog signal is proposed for borehole televiewing apparatus to reduce the amount of data transmitted from a borehole tool to surface imaging equipment. During at least one established time window, the analog signal is amplitude sampled with an analog-to-digital converter 11. Each sample value is fed to a comparator 15 and compared with a previously stored maximum amplitude sample value and, if the present sample is greater than stored, it is stored as the new maximum amplitude sample value. Whenever a new maximum amplitude sample value is stored, its time of occurrence is also stored. At the end of each time window digital data representing the maximum amplitude and its time of occurrence are available for transmission so as to allow reconstruction of the original analog signal.

IPC 1-7

**E21B 47/12; G01V 1/40**

IPC 8 full level

**E21B 47/14** (2006.01)

CPC (source: EP)

**E21B 47/14** (2013.01)

Citation (search report)

- [Y] GB 2094473 A 19820915 - STANDARD OIL CO
- [Y] US 4199729 A 19800422 - DURAND JEAN-MICHEL [FR], et al
- [Y] US 4382290 A 19830503 - HAVIRA R MARK

Designated contracting state (EPC)

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