

Title (en)

HIGH TEMPERATURE STABILIZED TIME BASE.

Title (de)

HOCHTEMPERATURSTABILISIERTE ZEITBASIS.

Title (fr)

BASE DE TEMPS STABILISEE PAR RAPPORT AUX TEMPERATURES ELEVEES.

Publication

EP 0635137 A4 19950419 (EN)

Application

EP 94902231 A 19931111

Priority

- US 9310932 W 19931111
- US 97588292 A 19921113

Abstract (en)

[origin: WO9411763A1] To provide stable, accurate time reference signals for control and operation of a well logging instrument (12), a temperature isolation enclosure (14) defines an internal cavity (16) for containing and protecting an electronic time base (10). An electronic timer (10) such as a crystal oscillator is located within the oven cavity (16) and is electronically stable at a predetermined temperature range slightly higher than the highest ambient temperature encountered within the wellbore. A heating element (18), control circuit (22), and a temperature sensor (24) are provided within the oven cavity (16) to maintain the timer (10) within the predetermined temperature range. An automatically energized cooling element (20) may also be provided within the oven cavity (16) for additional temperature control.

IPC 1-7

G01V 3/08; **G01V 3/10**; **G01V 3/12**; **G01V 3/18**; **H05B 1/00**

IPC 8 full level

G05D 23/20 (2006.01); **H03L 1/04** (2006.01)

CPC (source: EP)

G05D 23/1906 (2013.01); **G05D 23/20** (2013.01); **H03L 1/04** (2013.01)

Citation (search report)

- [Y] US 4967166 A 19901030 - MARCELLUS EMERSON C [US]
- [A] EP 0310863 A2 19890412 - SIEMENS AG [DE]
- See references of WO 9411763A1

Designated contracting state (EPC)

DE DK FR GB IT NL

DOCDB simple family (publication)

WO 9411763 A1 19940526; CA 2127809 A1 19940526; EP 0635137 A1 19950125; EP 0635137 A4 19950419; NO 942573 D0 19940708; NO 942573 L 19940708

DOCDB simple family (application)

US 9310932 W 19931111; CA 2127809 A 19931111; EP 94902231 A 19931111; NO 942573 A 19940708