

Title (en)

Logging tool with a parasitic radiation shield and method of logging with such a tool

Title (de)

Bohrlochmessgerät mit Strahlenschutzabschirmung und Messverfahren

Title (fr)

Instrument de diagraphie de puits avec blindage de protection contre les rayonnements et procédé de mesure

Publication

EP 1605281 A1 20051214 (EN)

Application

EP 04291261 A 20040517

Priority

EP 04291261 A 20040517

Abstract (en)

It is described a logging tool 20 for underground formations surrounding a borehole 14, comprising an elongated body 21 along a major axis; a collar 22 disposed peripherally around said body 21 having a collar wall defined by an inner and an outer surface; a radiation emitting source 201 arranged to illuminate the earth formation 16 surrounding the borehole; at least one radiation detector 211 arranged to detect radiation reflected by the earth formation resulting from illumination by the source 201; at least one source collimation window 202 and one detector collimation window 212 through which the earth formation is illuminated and radiation is detected; and characterized in that it further comprises at least one radiation shield 30 located between said inner collar surface and the outer surface of the tool, said radiation shield positioned so as to eliminate parasitic radiation that has not traversed the outer collar.

IPC 1-7

G01V 5/08; E21B 47/01

IPC 8 full level

E21B 47/01 (2012.01); **G01T 3/02** (2006.01); **G01V 5/04** (2006.01); **G01V 5/08** (2006.01); **G01V 5/10** (2006.01); **G01V 5/12** (2006.01)

CPC (source: EP US)

E21B 47/017 (2020.05 - EP US)

Citation (search report)

- [XDY] US 6666285 B2 20031223 - JONES DALE A [US], et al
- [Y] US 3510654 A 19700505 - PAAP HANS J, et al
- [A] US 5397893 A 19950314 - MINETTE DANIEL C [US]

Cited by

US8231947B2; US8211248B2; US9789544B2; US9982505B2; US8220554B2; US8211247B2; US8663401B2; US10316616B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1605281 A1 20051214; EP 1605281 B1 20060531; AT E328294 T1 20060615; CA 2506133 A1 20051117; CA 2506133 C 20131126; DE 602004001045 D1 20060706; DE 602004001045 T2 20061228; GB 0509221 D0 20050615; GB 2414296 A 20051123

DOCDB simple family (application)

EP 04291261 A 20040517; AT 04291261 T 20040517; CA 2506133 A 20050502; DE 602004001045 T 20040517; GB 0509221 A 20050506