

Title (en)
Methods and apparatus for micro-imaging

Title (de)
Verfahren und Vorrichtung für Mikrobildgebung

Title (fr)
Procédés et appareil de micro-imagerie

Publication
EP 1882809 B1 20110413 (EN)

Application
EP 06291222 A 20060724

Priority
EP 06291222 A 20060724

Abstract (en)
[origin: EP1882809A1] Apparatus for investigating underground formations surrounding a borehole, comprises: a drill bit (40); an optical probe (46) having substantially the same outer diameter as the drill bit; a drive mechanism, operable to cause the drill bit to drill a hole in the formation when the apparatus is in the borehole, and to advance the optical probe into the drilled hole; and an optical system, arranged such that when the optical probe is in the drilled hole, light from a light source is directed into the optical probe, light entering the probe from the source is directed at the formation (50) around the drilled hole, and light entering the probe from the formation around the drilled hole is directed to a detector. A method of investigating underground formations surrounding a borehole, comprises: drilling a hole in the formation to be investigated using a drill bit; inserting an optical probe having substantially the same outer diameter as the drill bit into the hole; directing light from a light source to the probe; directing light entering the optical probe to the formation around the drilled hole; directing light entering the optical probe from the formation to a detector; and analysing the light received at the detector.

IPC 8 full level
E21B 47/00 (2012.01)

CPC (source: EP US)
E21B 47/002 (2020.05 - EP US); **E21B 49/10** (2013.01 - EP US)

Cited by
EP2798153A4; AU2012366288B2; WO2013109277A1; US9690989B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1882809 A1 20080130; EP 1882809 B1 20110413; AT E505623 T1 20110415; DE 602006021294 D1 20110526;
US 2010026998 A1 20100204; WO 2008012035 A1 20080131

DOCDB simple family (application)
EP 06291222 A 20060724; AT 06291222 T 20060724; DE 602006021294 T 20060724; EP 2007006478 W 20070719; US 37470607 A 20070719