

Title (en)  
DOWNHOLE PROBE ASSEMBLY

Title (de)  
BOHRLOCHSENSORANORDNUNG

Title (fr)  
ENSEMBLE SONDE DE FOND

Publication  
**EP 1747347 B1 20141015 (EN)**

Application  
**EP 05753972 A 20050523**

Priority

- US 2005018123 W 20050523
- US 57329304 P 20040521
- US 57329404 P 20040521
- US 13364305 A 20050520
- US 13371205 A 20050520

Abstract (en)  
[origin: WO2005114134A2] This application relates to a downhole formation testing tool having an extendable sample apparatus and methods of use. In one embodiment, the extendable apparatus includes a piston that extends toward a borehole wall (49), the piston having an inner sampling member that is also extendable. The sampling member may be further extended to engage the borehole wall and penetrate the formation. The sampling member may also include a screen and an inner scraper (278) that frictionally engages the screen and reciprocates to remove debris from the screen. The piston may comprise a seal pad having an internal cavity for receiving a volume of fluid. In another embodiment, the extendable apparatus comprises multiple, concentric pistons for extending the sampling member further toward the borehole wall than is possible with a single piston. In one embodiment, the formation testing tool includes a hydraulic circuit and controller for operating the extendable sample apparatus; the tool may also include hydraulic accumulators and a regenerative hydraulic circuit.

IPC 8 full level  
**E21B 49/10** (2006.01); **G01N 1/14** (2006.01)

CPC (source: EP NO)  
**E21B 49/10** (2013.01 - EP NO)

Cited by  
CN104186959A; CN1113484216A

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**WO 2005114134 A2 20051201; WO 2005114134 A3 20051222**; AU 2005246425 A1 20051201; AU 2005246425 B2 20100812; AU 2005246425 C1 20101223; BR PI0511444 A 20071226; BR PI0511444 B1 20170207; CA 2559248 A1 20051201; CA 2559248 C 20090428; EP 1747347 A2 20070131; EP 1747347 A4 20120530; EP 1747347 B1 20141015; EP 2749733 A2 20140702; EP 2749733 A3 20161102; EP 2749733 B1 20190417; EP 2749734 A2 20140702; EP 2749734 A3 20161102; EP 2749734 B1 20190417; EP 3447242 A1 20190227; NO 20170794 A1 20070219; NO 20170795 A1 20170515; NO 341423 B1 20171113; NO 341425 B1 20171113

DOCDB simple family (application)  
**US 2005018123 W 20050523**; AU 2005246425 A 20050523; BR PI0511444 A 20050523; CA 2559248 A 20050523; EP 05753972 A 20050523; EP 14161780 A 20050523; EP 14161783 A 20050523; EP 18179418 A 20050523; NO 20170794 A 20170515; NO 20170795 A 20170515