

Title (en)  
PROPAGATING WAVE EARTH FORMATION RESISTIVITY MEASURING ARRANGEMENT

Title (de)  
MESSANORDNUNG ZUR WIDERSTANDSMESSUNG VON ERDFORMATIONEN UNTER VERWENDUNG VON SICH FORTPFLANZENDEN WELLEN

Title (fr)  
SYSTEME DE MESURE DE LA RESISTIVITE D'UNE FORMATION SOUTERRAINE AUX ONDES DE PROPAGATION

Publication  
**EP 1194792 A1 20020410 (EN)**

Application  
**EP 00938033 A 20000602**

Priority  
• US 0015118 W 20000602  
• US 14306599 P 19990709  
• US 14471099 P 19990720

Abstract (en)  
[origin: WO0104662A1] Propagating wave resistivity of a surrounding earth formation is measured by apparatus in a well bore being formed while drilling. The apparatus has a sonde (310) positioned within a drill collar (302) that has its exterior proximate the earth formation during passage of a drill device. The sonde has one or more transmitting antennae (315-1, 315-4) on the housing exterior at first positions that transmit interrogating signals to the earth formation and one or more receiving antennae (315-2, 315-3) that receive signals corresponding to the interrogating signals from the earth formation. The housing (330) has a substantially smooth exterior surface and the antennae are wound in recesses (312-1, 312-2, 312-3, 312-4) in the housing which are filled to be flush with the smooth exterior surface. The drill collar (302) is structured to pass the interrogating signals from the transmitting antennae on the sonde to the earth formation and to pass the signals from the earth formation corresponding to the interrogating signals to the receiving antennae on the sonde.

IPC 1-7  
**G01V 3/30**; **E21B 47/01**

IPC 8 full level  
**E21B 47/01** (2012.01); **G01R 27/02** (2006.01); **G01V 3/30** (2006.01)

CPC (source: EP US)  
**E21B 47/01** (2013.01 - EP US); **E21B 47/017** (2020.05 - EP); **G01V 3/30** (2013.01 - EP)

Citation (search report)  
See references of WO 0104662A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 0104662 A1 20010118**; AU 5312600 A 20010130; BR 0012316 A 20020521; CA 2378693 A1 20010118; CN 1434926 A 20030806; EP 1194792 A1 20020410; IL 147509 A0 20020814; JP 2003504626 A 20030204; MX PA02000232 A 20020621

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**US 0015118 W 20000602**; AU 5312600 A 20000602; BR 0012316 A 20000602; CA 2378693 A 20000602; CN 00812454 A 20000602; EP 00938033 A 20000602; IL 14750900 A 20000602; JP 2001510016 A 20000602; MX PA02000232 A 20000602