

Title (en)

AN APPARATUS AND METHOD FOR WELLBORE RESISTIVITY DETERMINATION AND IMAGING USING CAPACITIVE COUPLING

Title (de)

VORRICHTUNG UND VERFAHREN ZUR BOHRLOCH-WIDERSTANDSBESTIMMUNG UND -ABBILDUNG UNTER VERWENDUNG KAPAZITIVER KOPPLUNG

Title (fr)

APPAREIL ET PROCEDE POUR DETERMINER LA RESISTIVITE DES FORAGES ET IMAGERIE UTILISANT UN COUPLAGE CAPACITIF

Publication

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Application

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- US 83698001 A 20010418
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- US 9037402 A 20020304

Abstract (en)

[origin: WO02086459A1] An apparatus for obtaining resistivity parameters of earth formations (7) uses capacitive coupling (5) for injecting measure currents into the formation through a nonconducting mud. In one embodiment, a modulated electrical current is used. Alternatively, multifrequency measurements may be made to obtain the resistivity parameter. In an optional embodiment, the modulation frequency is in the AF range, making it possible to use prior art circuitry designed to reduce cross talk. Measurements may be made either on a wireline or in a MWD configuration.

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G01V 3/24

IPC 8 full level

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Citation (search report)

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- [Y] US 3539910 A 19701110 - HENRY LOUIS, et al
- [A] US 3928841 A 19751223 - VOGEL CHARLES B
- [A] SU 438964 A1 19740805
- [A] BURRUS B.: "Determination of Oil and Water Volumes By the Capacitance Method", SPE, SOCIETY OF PETROLEUM ENGINEERS, no. 1373, 28 April 1966 (1966-04-28) - 29 April 1966 (1966-04-29), pages 51 - 58, XP002529610
- See references of WO 02086459A1

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