

Title (en)

EMU IMPULSE ANTENNA FOR LOW FREQUENCY RADIO WAVES USING GIANT DIELECTRIC AND FERRITE MATERIALS

Title (de)

EMU-IMPULSANTENNE FÜR NIEDERFREQUENTE FUNKWELLEN UNTER VERWENDUNG RIESIGER DIELEKTRISCHER UND FERRITISCHER MATERIALIEN

Title (fr)

ANTENNE D'IMPULSION EMU DESTINÉE À DES ONDES RADIOÉLECTRIQUES BASSE FRÉQUENCE UTILISANT DES MATÉRIAUX DIÉLECTRIQUES ET DE FERRITE GÉANTS

Publication

EP 3714296 A1 20200930 (EN)

Application

EP 18819407 A 20181121

Priority

- US 201715820944 A 20171122
- US 2018062177 W 20181121

Abstract (en)

[origin: WO2019104117A1] An electromagnetic energy source for emitting pulses of electromagnetic energy includes a sonde assembly having a first section axially aligned with, and spaced from, a second section. An energy storage capacitor includes an electrode mounted in each of the first section and the second section of the sonde assembly and operable to generate an electric field. A capacitive charge storage medium is mounted in each of the first section and the second section of the sonde assembly and surrounds each electrode, where the capacitive charge storage medium is a giant dielectrics and giant permeability ferrite. A fast-closing switch is located between the first and second sections of the sonde assembly.

IPC 8 full level

G01V 3/20 (2006.01); **G01V 3/30** (2006.01)

CPC (source: EP KR)

G01V 3/30 (2013.01 - EP KR); **G01V 2003/084** (2013.01 - EP KR)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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