

Title (en)
FERROELECTRIC ANTENNA

Title (de)
FERROELEKTRISCHE ANTENNE

Title (fr)
ANTENNE FERROELECTRIQUE

Publication
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Application
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Abstract (en)
[origin: WO2005124926A1] The present invention refers to receiving and transmitting of electromagnetic radiation devices technique and, in particular, to broadband receiving and transmitting antennas of high (20 - 40db) gain in centimeter and decimeter band and in a longer wave length (1-10m or longer) and of small dimensions (1-2cm). The invention is intended for designing of an electronic device to be used as the multichannel television antenna for receiving and transmission of the television signal on Earth and in space in television installations and in mobile phone systems as well. This invention is intended for designing of the portable wideband antenna of high gain in transmission and reception modes. This goal is attained by inducing by external electromagnetic field in the electric antenna vibrator of a secondary electromagnetic wave with the intensity of electric field exceeding that of the wave it caused, due to inducing surface charges of polarization of segnetoelectric plates and inducing by this high frequency currents in a metal turn core and also by assembling the antenna as a package of segnetoceramic plates, connected via control electrodes in parallel, and of ferrite plates, and in the central holes of all plates a core of metal wire turn is inserted, the leads of which are connected to receiver-transmitter device.

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