

Abstract

A slot antenna which can be tuned without difficulty and which can be subjected to mechanically extreme loadings, for the fuse of artillery ammunition, is afforded by means of a sandwich structure in which an axially divided resonator ring chamber axially enclosed between upper and lower metallic cover discs profiled to be stable in respect of shape, is provided with a dielectric ring disc which extends with a peripherally extending collar radially opposite the central cylindrical reflector wall through an axial slot between the two hollow-cylindrical outside walls of the ring chamber to the outer surface of the fuse casing which is also peripherally slit. In one of the two cover discs the inner edge of the antenna slot which opens into the ring space is defined by a hoop which can be inserted into the front side of the outer wall and on which connecting locations which are displaced relative to each other in the peripheral direction are contacted through the dielectric ring disc and the axially oppositely disposed cover disc to a circuit carrier disc, where they are brought together in single-phase manner by means of a matching network to an antenna line, the second phase of which is connected to the cover disc adjacent thereto.

(Figure 3)



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