

Munition article with antenna for satellite navigation

Abstract

A munition article (11) is to be provided with an antenna (18) which, by virtue of a characteristic which is uniform all around, permits interference-free reception of items of satellite navigation information, even if in the manner of an artillery projectile (12) it is fired with spin along an elongate ballistic trajectory, so that a tail antenna with a spherical characteristic does not allow the expectation of good reception factors in relation to navigation satellites which are as high as possible above the horizon. Therefore the fuse tip (13) of the projectile (12) is equipped with a hollow-frustoconical portion of electrically conductive material such as light metal, which is designed in the form of a round-slot satellite antenna (18) and in which a coaxial annular hollow space (25) opens to the peripheral surface (19) of the fuse through a slot (23) which extends around the arrangement radially with respect to the longitudinal axis (16) of the projectile and which is in the form of an annular disc configuration. As feed cables coaxial cables (28), distributed uniformly around the periphery, can be connected with their inner and outer conductors (28.1, 28.2) at the inner mouth opening (22.2) of the slot (20) towards the hollow space (25) to the slot walls (31).

Figure 1