

Abstract

Safety and arming unit for the fuze of a projectile

5 A safety and arming unit with a safe separation distance device (14), which acts as a function of the incident flow and the temperature, for the fuze (12) of a projectile (11), which fuze is hermetically sealed from environmental influences, has, as a measurement device for the cooling, as a function of the incident flow, of a conductor through which current passes, in the heating circuit (18) of a resistant heating element (16) which is fitted flat on the fuze casing surface (17), an electronic current measurement appliance (21) which is connected upstream of an evaluation circuit (22), in order to ram a firing circuit. Two heating elements (16, 10 16"), which are fed in the same way, are preferably arranged one behind the other in the incident flow direction (15), and, additionally as an environmental temperature sensor, a comparison heating element (16') which is not influenced by the incident flow (15). This results in reliable safe separation distance, even for 15 slow projectiles (11), without adversely affecting their aerodynamic behaviour and independently of the environmental atmosphere.

Figure 1