

Title (en)
FUZE COMPRISING A SELF-DESTRUCTION DEVICE FOR A GYRATORY PROJECTILE

Title (de)
ZÜNDER MIT SELBSTZERSTÖRUNGSVORRICHTUNG FÜR EIN KREISELGESCHOSS

Title (fr)
FUSEE COMPORTANT UN DISPOSITIF D'AUTODESTRUCTION POUR PROJECTILE GIRATOIRE

Publication
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Application
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Abstract (en)
[origin: WO2022002462A1] The invention relates to a fuze (4) for a gyratory projectile, comprising a firing pin holder (14) movable about a rocker arm axis (15) perpendicular to the axis of symmetry (A) of the fuze, a primer holder (60) which is rotatably movable about an axis of rotation parallel to the axis of symmetry, and a self-destruction device (7). The latter comprises an AD mechanism (20) using the linear acceleration of the projectile at the start of firing to store axial kinetic energy, and a safety mechanism (30) using the centrifugal effects of the projectile during flight to store radial kinetic energy. The two mechanisms (20, 30) cooperate with each other, and with the firing pin holder and the detonator-carrier, to generate the various positions, i.e. the storage position before firing, the intermediate position during firing, the armed position during flight and the self-destruction position at the end of flight, thus guaranteeing maximum projectile safety in the storage position and maximum projectile reactivity regardless of the situation encountered during ballistic firing.

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