ELECTRO-MECHANICAL FUZE FOR A PROJECTILE

Abstract

[0038] The present invention describes an electronic fuze (200) operable to complement a mechanical point impact fuze (101). The electronic fuze (200) includes a voltage generator circuit (210), micro-controller (220), a piezo-electric sensor (262), a firing circuit (280) and a safety lockout circuit (290). When a projectile (50) strikes a target at an optimum angle, the mechanical point impact fuze (101) is activated; when the strike angle is oblique, the mechanical point impact fuze may be ineffective but the piezo-electric sensor (262) is operable to trigger the firing circuit (280). The safety lockout circuit (290) ensures the firing circuit (280) is operative only after a predetermined delay time when an n-channel FET (292) is turned OFF. The micro-controller (220) also generates a TIME-OUT signal, which provides for self-destruction of a projectile that has failed to explode.

[0039] FIG. 2A for publication.