

Wearable Programming Unit For Deploying Air Burst Munition

Abstract

A wearable programming unit (WPU) (110, 110a-110b) for assisting a user deploy air burst munition (ABM, 10) from a rifle (20) in an intuitive manner is described. The WPU has a ballistic processor (112), wireless communication channels (120), a vibrator (130), a display (130), a mode button (150) and up/down select buttons (160, 161). After an ABM is selected and loaded into the rifle, and a deployment distance entered in the WPU, the ballistic processor calculates and outputs a time of burst T and barrel angle α . The barrel angle α is received by a sighting unit (104) and appears as a target marker. Once the rifle is tilted and/or moved so that a centre of the sighting unit coincides with the target marker, the WPU vibrates as a signal to the user to trigger the rifle.

FIG. 1A for publication.