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ABSTRACT OF DISCLOSURE

A highly effective and also inert active penetrator, an active projectile, an active airborne body or an active multipurpose projectile with a constructively adjustable or settable relationship between penetrating power and lateral effect. The end ballistic total effect which is obtained from the penetrating depth and covering the surface or stressing of the surface is initiated in an active case by means of a releasable arrangement or installation which is independent of the position of the effective body (1). The lateral effectiveness is achieved by means of a suitable inert transfer medium (4), in which by a pressure-generating means (5) a quasi-hydrostatic or, respectively, hydrodynamic pressure field is built up and is transferred to the encompassing, fragments forming or sub-projectiles releasing active body casing (2).

The active body casing (2A, 2B) being end ballistically effective due to the material properties, mass and velocity thereof constitutes the central KE component. This casing being either entirely or partially closed encompasses an inner part, which is filled with a transfer medium (4) in the region of a desired active lateral effect, which transfer medium transfers the pressure generated by means of a controllable pyrotechnic unit (5) to the active body casing and, thus, effects a disintegration into fragments / sub-projectiles having lateral movement components.

The active pyrotechnic unit (5) may be constituted of a single electrically initiatable detonator (6) being small in comparison to the size of the effective body and which is connected to a simple contact detector, a timer, a programmable module, a receiver and a safety component as an activatable initiating device (7). This activatable initiating device may be arranged in the tip area and/or the tail area of the penetrator and may be connected to a line (8).

(Figs. 1A and 1B)

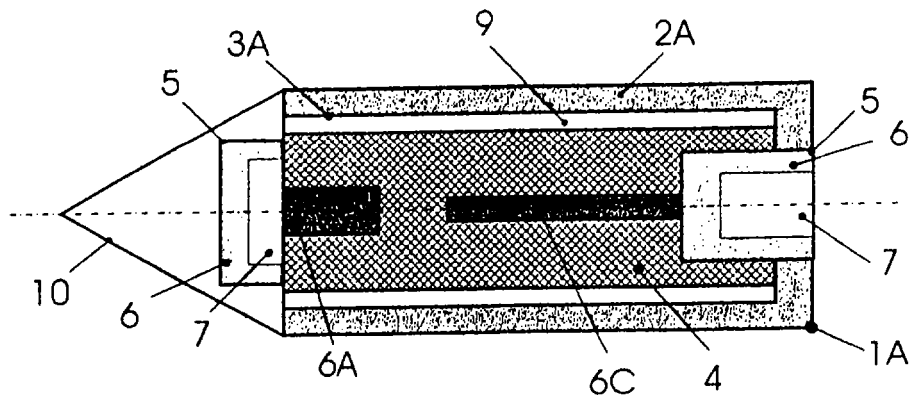


Fig. 1A

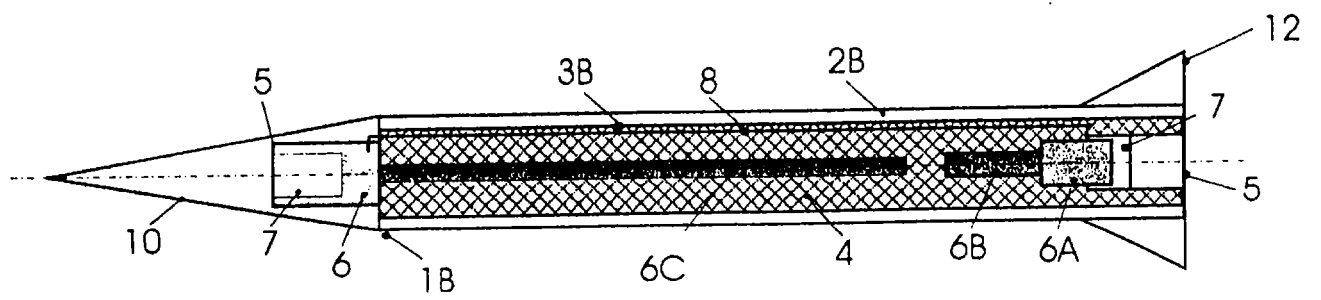


Fig. 1B