

Title (en)

DIGITAL COUNTER SETTING APPARATUS FOR THE INITIATION OF A TIMED-DETONATOR IN A PROJECTILE

Publication

**EP 0300255 B1 19910424 (DE)**

Application

**EP 88110621 A 19880704**

Priority

CH 273587 A 19870720

Abstract (en)

[origin: JPS6441799A] PURPOSE: To enable transmitting a number of pulses within a short time after their passage through the transmitter coil by using double pulses for the pulse transmitted from the transmitter coil located at the muzzle to the receiver coil in the projectile. CONSTITUTION: Double pulses are used when the muzzle velocity of a projectile is measured, the pulse is transmitted from the transmitter coil 16 fixed to the front of the muzzle 10, and a counter 32 in a projectile 22 is inductively adjusted through the receiver coil 23. The positive voltage +U is used for the first part of a signal 1 and a negative voltage, -U for the second part. A negative voltage -U is used for the first part of signal 0 and a positive voltage +U, for the second part. And provided that both the positive pulse +U and the negative pulse -U continue, for example, for 400 nanoseconds, the time necessary for the double pulse becomes 800 nanoseconds and, besides, 800 nanoseconds is sufficient for the dead time in the single double pulse. That is, it is possible for the dead time to be as short as one tenth in the comparison with the past.

IPC 1-7

**F42C 17/04**

IPC 8 full level

**F42C 9/00** (2006.01); **F42C 11/00** (2006.01); **F42C 15/40** (2006.01); **F42C 17/04** (2006.01)

CPC (source: EP US)

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Cited by

EP0802392A1; EP0802391A1; EP0802390A1; US6138547A; US5117732A; DE102009011447B4; DE102009011447B9; EP0783095A1; SG93810A1; EP0769673A1; US5787785A; EP0451122A3; DE102010006528A1; DE102010006528B4; US5814756A; SG83656A1; US5834675A; SG83658A1; EP0359908A1; US5814755A; SG83657A1; DE102010006530A1; DE102010006530B4; US6170377B1; US8984999B2

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DOCDB simple family (application)

**EP 88110621 A 19880704**; CA 571284 A 19880706; CN 88104472 A 19880719; DE 3862536 T 19880704; ES 88110621 T 19880704; JP 17930388 A 19880720; US 21533488 A 19880705; ZA 885212 A 19880719