

Title (en)
DEVICE FOR CONTROLLING AND/OR MONITORING THE OPERATION OF A PROJECTILE'S FUZING

Publication
EP 0082445 A3 19840328 (DE)

Application
EP 82111483 A 19821210

Priority
DE 3150172 A 19811218

Abstract (en)
[origin: US4495851A] Apparatus for setting and/or monitoring the operation of an electronic fuse for shells to be fired from a gun, by transmitting a microwave data signal and a microwave energy signal to a device inside the fuse from a device outside the fuse, the device inside the fuse including an energy receiver with a rectifier for generating a supply voltage, a data receiver, a data processing unit and a fuse electronic system, and the device outside the fuse including an energy transmitter, an input/output unit and a data transmitter, including means for disposing the device outside the fuse so that the transmission of the microwave signals occurs at the latest during loading of the shell carrying the fuse into the gun; means for transmitting the energy signal and the data signal together and simultaneously; a reply signal transmitter additionally included in the device inside the fuse; a reply signal receiver additionally included in the device outside the fuse; the data-signal transmitting means and the reply signal transmitter being actuable for transmitting and exchanging information in opposite directions; and a respective single antenna located at the fuse and at the device outside the fuse for receiving and transmitting energy, data and reply signals.

IPC 1-7
F42C 15/40

IPC 8 full level
F42C 21/00 (2006.01); **F42C 17/04** (2006.01)

CPC (source: EP US)
F42C 17/04 (2013.01 - EP US)

Citation (search report)
• [Y] US 4160416 A 19790710 - BARACZ ANDREW J
• [Y] DE 2506144 A1 19760826 - BLUETHGEN BJOERN

Cited by
EP1742010A1; CN109297376A; FR2704639A1; GB2198815A; GB2198815B; EP0992762A1; RU2740886C1; DE3625302A1; US4776277A; US4632031A; US6422119B1; WO2017206978A1; WO9003549A1

Designated contracting state (EPC)
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EP 82111483 A 19821210; DE 3150172 A 19811218; JP 22172482 A 19821217; US 45075982 A 19821217