

Title (en)

Piezoelectric firing device for the activation of an electric igniter with resistance wire

Title (de)

Piezoelektrische Abfeuereinrichtung zur Aktivierung eines elektrischen Zünders mit Widerstandsdraht

Title (fr)

Dispositif de mise à feu piézo-électrique pour l'actionnement d'un allumeur électrique à fil résistant

Publication

EP 0548433 B1 19960508 (FR)

Application

EP 91403523 A 19911223

Priority

FR 9009433 A 19900724

Abstract (en)

[origin: FR2665253A1] To control the activation of an electrical resistance-wire igniter, a piezoelectric ignition device is proposed which comprises, inside a housing (10), a control mechanism (14), a piezoelectric generator (16) and an electrical transformer (18). The depression of a pushbutton (24) of the control mechanism (14) propels a mass (36) against the cap (52) of the piezoelectric generator. The high-voltage electric signal of very short duration which is thus produced is converted, in the transformer (18), into a low-voltage signal, the strength and duration of which makes it possible to actuate the igniter. As soon as the pushbutton (24) is released, a return spring (46) returns the control mechanism to its initial state, so that the device can be actuated several thousand times without maintenance. <IMAGE>

IPC 1-7

F41A 19/62; **F23Q 3/00**

IPC 8 full level

F23Q 3/00 (2006.01); **F41A 19/62** (2006.01)

CPC (source: EP)

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FR 2665253 A1 19920131; **FR 2665253 B1 19940819**; DE 69119423 D1 19960613; DE 69119423 T2 19961128; EP 0548433 A1 19930630; EP 0548433 B1 19960508; ES 2090278 T3 19961016

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