

Title (en)

Ignition device for propellant charge; cartridge and magazine for adiabatically ignitable cartridges, especially for nailing tools.

Title (de)

Vorrichtung zum Zünden einer Treibladung und Kartusche sowie Magazin für adiabatisch zündbare Kartuschen, insbesondere Bolzensetz- oder -schussgeräte.

Title (fr)

Dispositif pour l'allumage d'une charge propulsive; cartouches et magasin pour des cartouches susceptibles d'être allumées adiabatiquement, notamment pour des appareils de clouage par explosion.

Publication

EP 0490252 B1 19950517 (DE)

Application

EP 91120831 A 19911204

Priority

DE 4039069 A 19901207

Abstract (en)

[origin: EP0490252A2] The ignition device for a propellant charge (76) is provided with a housing delimiting a cavity, in which a piston is displaceably guided. Via a bore acting as a nozzle, the cavity is provided with a chamber, in which a sleeve body (62) is arranged, in which the propellant charge (76) is accommodated. The bottom wall (64) of the sleeve body (62) is provided with a bore (66) lying flush with the bore (42). On the inner surface of the bottom wall (64), there is situated an ignition plate (70) which is thinner in its central region than in the edge region. The central region of the ignition plate (70) is the mechanically thermally stressed region during compression, via which the ignition energy in the form of hot compressed air from the compression space is supplied to the ignition plate (70). <IMAGE>

IPC 1-7

F41A 19/56; **F42C 19/08**; **F42B 39/08**; **B25C 1/10**; **B25C 1/16**

IPC 8 full level

B25C 1/10 (2006.01); **B25C 1/14** (2006.01); **B25C 1/16** (2006.01); **F41A 19/56** (2006.01); **F42B 39/08** (2006.01); **F42C 19/08** (2006.01)

CPC (source: EP US)

B25C 1/146 (2013.01 - EP US); **B25C 1/16** (2013.01 - EP US); **F41A 19/56** (2013.01 - EP US); **F42B 39/08** (2013.01 - EP US); **Y10S 102/702** (2013.01 - EP US)

Cited by

FR2848900A1; FR2835462A1; TR28768A; WO9524994A1

Designated contracting state (EPC)

CH DE FR GB IT LI

DOCDB simple family (publication)

EP 0490252 A2 19920617; **EP 0490252 A3 19930303**; **EP 0490252 B1 19950517**; DE 4140020 A1 19920611; DE 59105519 D1 19950622; JP H05208382 A 19930820; US 5216200 A 19930601; US 5355766 A 19941018; US 5471903 A 19951205

DOCDB simple family (application)

EP 91120831 A 19911204; DE 4140020 A 19911204; DE 59105519 T 19911204; JP 32273291 A 19911206; US 27743794 A 19940718; US 6798593 A 19930527; US 80399091 A 19911209