

Title (en)

FUEL-OPERATED FIRING DEVICE AND METHOD FOR OPERATING A FIRING DEVICE OF THIS TYPE

Title (de)

BRENNKRAFTBETRIEBENES SETZGERÄT UND VERFAHREN ZUM BETREIBEN EINES DERARTIGEN SETZGERÄTS

Title (fr)

OUTIL DE POSE ACTIONNÉ PAR LA PRESSION D'UNE COMBUSTION ET PROCÉDÉ POUR FAIRE FONCTIONNER UN OUTIL DE POSE DE CE TYPE

Publication

**EP 3393717 A1 20181031 (DE)**

Application

**EP 16825379 A 20161220**

Priority

- EP 15201895 A 20151222
- EP 2016081897 W 20161220

Abstract (en)

[origin: WO2017108772A1] The invention relates to a fuel-operated firing device (1) for driving securing elements into a substrate, comprising at least one main combustion chamber (6) for a fuel, a driving piston (10) that can be driven out of the main combustion chamber (6) in a firing direction (15) by means of expandable gases, and a pre-chamber (25) with which an ignition device (26) is associated and in which a pressure acting on the main combustion chamber (6) can build up prior to a fuel-air mixture being ignited in said main combustion chamber (6). In order to improve the efficacy and/or functionality during the driving in of securing elements using the fuel-operated firing device (1), the pre-chamber (25) has at least two venting connections (108; 109) which are mutually spaced in an axial direction and which have passages (31, 32; 111, 112) that can be exposed conjointly in order to facilitate rapid venting of the pre-chamber (25).

IPC 8 full level

**B25C 1/08** (2006.01)

CPC (source: EP US)

**B25C 1/08** (2013.01 - EP US); **F15B 15/19** (2013.01 - US); **F15B 2215/30** (2013.01 - US)

Citation (search report)

See references of WO 2017108772A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3184253 A1 20170628**; CN 108430705 A 20180821; EP 3393717 A1 20181031; EP 3393717 B1 20220921; JP 2019500538 A 20190110; TW 201722645 A 20170701; US 11204046 B2 20211221; US 2020271141 A1 20200827; WO 2017108772 A1 20170629

DOCDB simple family (application)

**EP 15201895 A 20151222**; CN 201680075972 A 20161220; EP 16825379 A 20161220; EP 2016081897 W 20161220; JP 2018532718 A 20161220; TW 105137084 A 20161114; US 201616063782 A 20161220