

Title (en)
Fastening device

Title (de)
Eintreibgerät

Title (fr)
Appareil d'enfoncement

Publication
EP 2457699 A3 20151007 (DE)

Application
EP 11186877 A 20111027

Priority
DE 102010061938 A 20101125

Abstract (en)
[origin: EP2457699A2] The apparatus has a tank (2) that stores liquefied petroleum gas (LPG) fuel. A combustion chamber (1) is connected with the tank. A movable piston (6) is arranged within the combustion chamber, for driving a plunger (7). A metering device (4) is located between the tank and combustion chamber. A displacement structure is installed within the metering device. The fuel is discharged from the tank, when the displacement structure is moved by the operating force of power sources.

IPC 8 full level
B25C 1/08 (2006.01)

CPC (source: EP US)
B25C 1/08 (2013.01 - EP US)

Citation (search report)

- [XY] DE 10326473 B3 20041216 - HILTI AG [LI]
- [YA] FR 2854587 A1 20041112 - HILTI AG [LI]
- [A] DE 10337349 A1 20050310 - ORANGE GMBH [DE]

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 2457699 A2 20120530; EP 2457699 A3 20151007; EP 2457699 B1 20171018; CA 2758470 A1 20120525; DE 102010061938 A1 20120531; JP 2012111034 A 20120614; JP 5893902 B2 20160323; US 2012132691 A1 20120531; US 9381634 B2 20160705

DOCDB simple family (application)
EP 11186877 A 20111027; CA 2758470 A 20111115; DE 102010061938 A 20101125; JP 2011255131 A 20111122; US 201113302528 A 20111122