

Title (en)

TORCH WITH INTEGRAL FLASHBACK ARRESTOR AND THERMAL SHUT-OFF DEVICE

Title (de)

BRENNER MIT INTEGRIERTER FLAMMENRÜCKSCHLAGSICHERUNG UND VORRICHTUNG ZUR THERMISCHEN ABSCHALTUNG

Title (fr)

CHALUMEAU À DISPOSITIF D'ARRÊT DE RETOUR DE FLAMME ET DISPOSITIF D'ARRÊT THERMIQUE INTÉGRÉS

Publication

**EP 3563088 A1 20191106 (EN)**

Application

**EP 16925294 A 20161230**

Priority

US 2016069392 W 20161230

Abstract (en)

[origin: WO2018125187A1] A torch with integral flashback arrestor and thermal shut-off device is provided. In one approach, a torch body includes a passageway of the torch body, and a cartridge assembly disposed within the passageway. The cartridge assembly may include at least one of: a resettable pressure-sensitive device, and a thermal shut-off device, wherein the pressure-sensitive device and the thermal shut-off device are modifiable from a first configuration to a second configuration in response to a pressure or temperature gradient in the torch body, and wherein the second configuration restricts flow through the passageway. The cartridge may further include a check valve disposed along the passageway, for example, within a bore of a bushing, or within a retainer coupled to the torch body at an inlet of the passageway.

IPC 8 full level

**F23D 14/46** (2006.01); **F23D 14/72** (2006.01); **F23D 14/82** (2006.01)

CPC (source: EP US)

**A62C 4/02** (2013.01 - EP); **F16K 17/164** (2013.01 - EP); **F16K 17/36** (2013.01 - EP); **F16K 17/383** (2013.01 - EP); **F16K 31/002** (2013.01 - EP); **F23D 14/38** (2013.01 - EP); **F23D 14/465** (2013.01 - EP US); **F23D 14/82** (2013.01 - EP); **F23D 14/825** (2013.01 - US); **F23N 3/047** (2013.01 - EP); **F23N 5/047** (2013.01 - EP); **F23N 5/247** (2013.01 - EP); **F23D 14/42** (2013.01 - US); **F23D 2900/14381** (2013.01 - US); **F23N 2231/16** (2020.01 - EP); **F23N 2231/28** (2020.01 - EP); **F23N 2241/11** (2020.01 - EP US)

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)

**WO 2018125187 A1 20180705**; AU 2016433829 A1 20190822; BR 112019011368 A2 20191015; CA 3046194 A1 20180705; CN 110114615 A 20190809; EP 3563088 A1 20191106; EP 3563088 A4 20200805; MX 2019007499 A 20190910; US 2019323709 A1 20191024

DOCDB simple family (application)

**US 2016069392 W 20161230**; AU 2016433829 A 20161230; BR 112019011368 A 20161230; CA 3046194 A 20161230; CN 201680091946 A 20161230; EP 16925294 A 20161230; MX 2019007499 A 20161230; US 201916431936 A 20190605