Title (en)

COMBUSTION SYSTEM AND METHOD OF OPERATION THEREOF

Title (de)

VERBRENNUNGSSYSTEM UND VERFAHREN ZUM BETRIEB DAVON

Title (fr)

SYSTÈME DE COMBUSTION ET PROCÉDÉ DE FONCTIONNEMENT CORRESPONDANT

Publication

EP 4212772 C0 20240131 (EN)

Application

EP 22165657 A 20220330

Priority

TW 111101720 A 20220114

Abstract (en)

[origin: EP4212772A1] A combustion system using at least 90 wt% propylene glycol based liquid fuel includes a first fuel tank (10), a wick (11) inserted in the first tank, a sensing unit (12) configured to receive an activating signal and sense the liquid level of the propylene glycol based liquid fuel in the first fuel tank and send a fuel replenishment signal accordingly, a second fuel tank (20), a conduit system (30) connected with the first and the second fuel tanks (10, 20), and a drive unit (40) connected with the conduit system (30) and configured to receive the fuel replenishment signal so as to cause the propylene glycol based liquid fuel in the second fuel tank to replenish the first fuel tank through the conduit system as well as to cool the wick.

IPC 8 full level

F23D 3/08 (2006.01); **F23D 11/36** (2006.01); **F23K 5/04** (2006.01); **F23N 1/00** (2006.01)

CPC (source: EP US)

F23D 3/08 (2013.01 - EP US); **F23D 3/18** (2013.01 - US); **F23D 11/36** (2013.01 - EP); **F23K 5/04** (2013.01 - EP US); **F23N 1/005** (2013.01 - EP); F23D 2202/00 (2013.01 - US); F23D 2214/00 (2013.01 - US); F23D 2900/31004 (2021.05 - US); F23K 2900/05001 (2013.01 - US); F23K 2900/05003 (2013.01 - US); F23N 2225/02 (2020.01 - EP)

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

Participating member state (EPC – UP)

AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT SE SI

DOCDB simple family (publication)

EP 4212772 A1 20230719; **EP 4212772 B1 20240131**; **EP 4212772 C0 20240131**; AU 2022201378 A1 20230803; AU 2022201378 B2 20240229; JP 3240815 U 20230206; TW 202328594 A 20230716; TW I783858 B 20221111; US 2023228414 A1 20230720

DOCDB simple family (application)

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