

Title (en)  
LIQUID FUEL BURNER

Title (de)  
FLÜSSIGBRENNSTOFF-BRENNER

Title (fr)  
BRÛLEUR À COMBUSTIBLE LIQUIDE

Publication  
**EP 3358254 A1 20180808 (EN)**

Application  
**EP 18155112 A 20180205**

Priority  
• JP 2017020404 A 20170207  
• JP 2018012403 A 20180129

Abstract (en)  
Provided herein is a liquid fuel burner provided with a liquid fuel cartridge that is not affected by heat of a burner. The liquid fuel burner includes a liquid fuel cartridge 3, a liquid fuel tank 7, a burner assembly 9, a frame structure 81 including a heat insulating plate 89, and a lid 83. A cartridge body 11 of the liquid fuel cartridge 3 is made of a resin molded product, and includes a bottom portion 11B opposed to the lid 83, a main body portion 11C continuous with the bottom portion 11B, and a central portion 11D continuous with the main body portion 11C. An outer dimension of the main body portion 11C is designed to be smaller than an outer dimension of the central portion 11D such that a gap S1 is defined between the heat insulating plate 89 and the main body portion 11C, thereby suppressing the temperature of the main body portion 11C below the starting temperature of thermal deformation.

IPC 8 full level  
**F23D 3/02** (2006.01); **F23K 5/02** (2006.01); **F23K 5/14** (2006.01); **F24C 5/18** (2006.01)

CPC (source: EP)  
**F23D 3/02** (2013.01); **F23K 5/02** (2013.01); **F23K 5/147** (2013.01); **F24C 5/18** (2013.01)

Citation (search report)  
• [A] JP H09229347 A 19970905 - HAYANO FUJIYA  
• [A] US 5662468 A 19970902 - HENDERSON RICHARD W [US]  
• [A] US 5549470 A 19960827 - HENDERSON RICHARD W [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)  
**EP 3358254 A1 20180808**

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