

Title (en)

CARTRIDGE HEATER APPARATUS

Title (de)

KARTUSCHENHEIZVORRICHTUNG

Title (fr)

APPAREIL D'ÉLÉMENT CHAUFFANT DE CARTOUCHE

Publication

**EP 2910083 A4 20160601 (EN)**

Application

**EP 13846809 A 20131016**

Priority

- US 201213656113 A 20121019
- US 2013065196 W 20131016

Abstract (en)

[origin: US2014112650A1] A cartridge heater apparatus includes a tube; a heating cartridge adapted to be inserted into the tube for heating fluid passing through a passage space between the heating cartridge and the tube, the heating cartridge being secured at a first end thereof in a cantilever manner; and means for supporting the heating cartridge in the tube at a location distant from the first end, without blocking the fluid passing through the passage space between the heating cartridge and the tube.

IPC 8 full level

**H05B 3/40** (2006.01); **F16L 53/35** (2018.01); **F24H 3/04** (2006.01); **F24H 9/18** (2006.01); **H05B 3/42** (2006.01); **H05B 3/78** (2006.01)

CPC (source: EP US)

**F16L 53/35** (2017.12 - EP US); **F24H 3/0405** (2013.01 - EP US); **F24H 9/1863** (2013.01 - EP US); **H05B 3/42** (2013.01 - EP US)

Citation (search report)

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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

DOCDB simple family (publication)

**US 2014112650 A1 20140424**; EP 2910083 A1 20150826; EP 2910083 A4 20160601; WO 2014062777 A1 20140424

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