

Title (en)  
HEATING DEVICE OPERATED WITH LIQUID FUEL

Title (de)  
MIT FLÜSSIGEM BRENNSTOFF BETRIEBENE HEIZEINRICHTUNG

Title (fr)  
SYSTÈME DE CHAUFFAGE FONCTIONNANT AVEC UN COMBUSTIBLE LIQUIDE

Publication  
**EP 2912376 A1 20150902 (DE)**

Application  
**EP 13762412 A 20130802**

Priority

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Abstract (en)  
[origin: CA2886415A1] The invention relates to a heating device operated with liquid fuel, having a fuel pump (1) that comprises a displacement element (2) and is used to suction the liquid fuel out of a tank (6) and feed it to a pressure-conducting region (7, 9), in which an elevated pressure defined by a pressure regulator (14) exists and which transmits the fuel to an atomizer nozzle (10), from which it exits into a combustion chamber to form a burner flame (11). In order to avoid interruptions of operation, the pressure-conducting region (7, 9) comprises at least one additional volume (20, 22), the size of which is selected such that the pressure drop occurring in the pressure-conducting region (7, 9) during suction of gas bubbles does not lead to a lasting interruption of fuel delivery by the fuel pump (1). The additional volume (20) can be integrated directly into the pump or the additional volume (22) can be integrated into the nozzle pipe.

IPC 8 full level  
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Citation (examination)  
US 2013098349 A1 20130425 - DENG DAVID [US]

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DOCDB simple family (publication)  
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